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Questions proposed by the Commission, and Replies by Officers of the Army in India

> H Medical I Commissariat

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N D.—The replox of all officers have been arranged under the heads of the several questions to which they relate the quartness bein, pended a largest type than the suspense. Repl as have not been received from every officer addressed and some of these who have conversed have not found it pended to seed replace to every questions.

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MEDICAL

1 What are the statistics of invaliding and mortality of Kative regiments stationed in Lower Bengal ℓ

Surgeon General J. P. Beatson M.D. Indian Med and Department.

Less favorable than those for the entire Native army in the Bengal presidency, but, after all, not very markedly so, af one set of lines at Burrick ore are left out of the account. The difference in the relative figures is not such as to lead to the conclusion that, as at present constatoted, the Bengal Native army may not be freely employed in Lower Bengal It was an old custom, possibly quite as much due to half datis as to very unfavorable vital statistics, to keep no regiment longer than two years at one period in Bengal, but I believe the doctrine of health deterioration has been abstudly over-estimated. In 1875 the 10th Regiment suffered most heavily at Britackpore-recording to one view, from the climate of Bengal, according to another, from under feeding and generally it was believed that another year in Bengul would annihilate the regument. This view, however, did not find acceptance at sumy head quarters, or execumstances made transfer unaracticable. and the regiment to this hour is in Bengal, at Bairnekpore and Daeca. and m very good form!

It was a ferturate encumatance that the regressive was not moved up country, or its present size of health would unquestionally have been directly attributed to removal from the noncons climate of Lower Bengal, and bese cited in all time coming, as jucof of the superior various of the former plan of making the torn of service in Lower Bengal a strictly hunted one of two years. A detailed figured statement is appended to show the losses among the troops in Lower Bengal from the service causes connected and

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Dr G Sm th MD Surgeon General Indian Medical Service Madias

A tabular statement is appended (appendix A) which embodies the information called for in questions I and 2 Speaking generally Bengal is one of the most healthy of the military commands of the Midras army A wurm, dry sheltered and non malural clumte best suts the con

stitution of the Madras sepay at the same time experience shows that if well fed, well clothed, and well sheltered, he is able to resist not unsuccessfully, severe cold and that it were not, wen consequent of the compenses of the Medicas support and members represent the set. The methed expenses of the Medicas support and members in Ugitanistan (1878 78) may be additioned in illustration of this time. The B, C and K companies of Sai pers and Miners served with the Pearly with 1814 Europe from December 1878 to July 1873 medius or Their anners settor and the Federal Trail force into account of some source for some settor. But aggregate steeping anomated to 914, metaling public and pravide followers, of its number, 23 area European commissioned and written followers. During the mes months referred to there are 236 admissions to hospital Omitting 19 cases of chellers, after cross of spills, and some months of the control of the affections, we find in-

Dece ibes - Eight admissions from ague, two from bronchitis and two from distributes

January - S xteen from ague, three from bronchites, five from dysentery and five from remittent

Pebruary -Nine from remittent fever, six bronchites, two from pneumonia, and four from dysentery. March -Three from bronchitis, five from remittent fever and four from dysentery

April -Two from ague four from sample continued fever, and eight from general debility (i.e., unable to accompany a possible rapid maich to Cabul), seven from diarrhox, and two from dysentery May -One from remittent fever, four from simple continued fever, five from diarrhess and three

from disentery

June — (Eighteen from cholera) Eight from remittent fever, five from diarrhesa, one from ague, and one from simple continued fever

July - (One from cholera) Two from remittent fever and one from diarrhose

"resp — (One content) a rev ann requirement and one of triff content of the content cases the deaths aggregated 7 Among the followers there was 6 deaths from cholen; 3 from readition feet, 1 from age, and 1 from permanent The support of these companies had been sortedly selected by the medical officer in the first place, and the results now recorded show that men of this stamp many of whom are ment eaters, are able to hear with a fair share of impunity alike the severe cold and the servely endurable hert of Afghanistan The same agencies which would certainly produce mefficiency in troops of other races will prove equally potent in the case of the Madras sepoy, as shown in the expenence of a wing of the 30th Madras Native Infantiy at Vitakri in Beluchistan

That wing is at present prostrated with severe fever, diarrhoea and scurvy, the result of hard work, exposure, malaria, scarcity of fresh vegetables, and of a bad supply of water and lations

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2 What are the statistics of invaliding and mortality of Madias Native infantry regiments in the North-Westein Trontier and in the Central Provinces?

Surgeon General J P Beatson at p Ind an Medical Department I um not able to give any information about the Madias Native regiments employed in the North Western Front ry was nothing as made to the soften connected with them. But the impression formed from 40 persual of the Madias amy reports as that the health of that port on employed in the Central Powness as smaller better than that of the entire Native curry of Madias and the data takes of the Bengal Native amy stationed in the Upper Erovances are better than those of the garments of Lower Bengal and Assum

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(817) [Appendix IV

Is there any advantage in keeping up a separate purveyor's establishment for hospitals?

Surgeon General J Ker Innes Brish Medeal Department, and Principal Medical Officer British Forces in India

There is no advantage in Leoping up a separate purveyor's establishment for hospitals on the contrary, it interferes considerably in the efficient worling of hospitals, and is more expensive than the old steward's system for which it was substituted in 1868 Under the stew ard's system, the medical offices had entire control over the whole of the hospital establishments and stores, and was held responsible that every

thing in connection with the hospital was kept in a serviceable condition, and in accordance with regulations. Under the purveyor's system, the responsibility and change of stores and establishments as drawled before the medical and commission at operations A in posent the model officer has charge of a powtron of the establishment and all the medical and surgical stores, the terminete of the sevents and articles of hospital equipment, comprising diets, wines, hedding, clothing, cooling utens is, &c, are under the orders of the commissariat department. The purveyor, while nonimally under the medical offi cer's orders is entirely a commissionat is abordurate, by whom he is employed, paid, pensioned &c., &c He is supplied with quarters in the vicinity of the lossified (which he seldem on never occupies), and is permitted to sloop at his home (generally in the burn for which he receives house tent). What with hving in the bizar, and having to attend the commissariat office for orders and the commissariat godowns for supplies, the purveyor is seldom in the hospital for more than an hour or two during the 24 hours In the interval, his duties are carried on by the establishment placed at I is disposal, and the consequence is that, in the absence of proper supervision, the work seems to be inefficiently carried on, and much inconvenience is experienced

To remedy this, the purveyor and his establishment should be under the control of the medical department and the medical officer held responsible for the efficient performance of all duties in connection with the sick, and for the charge of the whole of the hospital equipment similar to that of the

medical and surgical stores

At present the purveyor is generally of the Bengali Babu class and consequently will not live in the hospital enclosure unless compelled to do so and as hospital assistants many of whom are Bengalas, live in the vicinity of the hospital, there is no reason why an exception should be made in the case of purveyors. In fact, the purveyor grade should be open to my class of men having the requisite qualifications, and who are prepared to live near their work

The puricy or's establishment excepting dhobies should be amalgamated with the army hospital Native corps, which will admit of the numbers being reduced and a better class of men obtained, all

amenable to discipl no and under the orders of one department.

Such a system while increasing the effective of the hospital and adding much to the comfort of the ask, would save the State about Rs 10,000 annually in the stem of loose rout to pureyors, for it is not just to Government that permanent quarters should be exceled for them (which are seldom on never comp od), and at it or sums time allow them compensation for luring in the bazar

It is estimated that the cost of the sirvant system amounted to about RE 70,000 annually, that of the engand cost of pure years its 30,000 annually, and that of the pursent cost of pure years is 30,000 annually, and that of the pursent cost of pure years about RE 73,000 annually, being a little over that of stearwis. The sum alloyed to the commissional department to evaluate the purmeying system should be transferred to the most of the pure years and the state of the sum alloyed to the commission of the pure years about it is transferred to the most of the pure years and the state of the sum alloyed to the commission of the pure years are should be transferred to the most of the sum alloyed to the commission of the sum alloyed to the sum alloyed to the commission of the sum alloyed to cal department in the event of this proposal being sanctioned

Surgeon General J F Bentson M.D Indian Moderal Department,

A direct categorical answer to this question is somewhat difficult to frame, because of the absence of any indication of the manner in which it is proposed to provide afterwards for the duties of the purveyor

Under the system which the present one superseded, a member of the apothecary class, with the tatle of steward, discharged the duties now devolving on the purveyor, and considering the limited professional training which the subordinate medical department their received, there was nothing absolutely grotesque in the anargement. but now, when the chrontonial advantages empoyed during a three years residence in the medical college have given the Government, in the members of the substrainties medical department a highly trained class of professional men, it would be, in my judgment, a clear waste of skilled efficiency to reveat to the dates go a six

But might not the question be appropriately put in a disjunctive form thus —Or if kept up, might not the medical subordinates now sanctioned for regiments be reduced? To the latter part of the question so framed, I should, without hesitation, give an affirmative reply. When regiments had lew or no absentees in the hills and were actually considerably stronger numerically than of

late years, the medical and surgical duties of the hospital were performed by-

1 apothecary,

1 assistant ditio, and 2 apprentices,

whereas now the establishment embraces-

1 apothecary, 1 assistant ditto

1 passed hospital apprentice, and 2 or riore hospital apprentaces

The mere numerical statement, however, gives but a very faint conception of the real increase of strength, masmitch as each of the three senior grades his received a most substituting, almost finished, noticessoral trungs, rendering the passes heapth appentice perfectly able to perform most efficiently the dates formerly done by the senior specialization of the Court of Medical Department has, more than once, put it on record that the unpassed hospital apprentices are of no real use in the regimental hospitals and therefore, with the sanction of the Government of India, conveyed in letter No 12148 Medical Department of 11th August 1879, limitation of the numWhat are the statustics of invaliding and mortality of Madias Native infantry regiments in the North-Western Frontier and in the Central Provinces?

Surgeon General J P Bestson M.D Indian Medical Department I'm not able to gave any information shout the Mindre Native regements employed in the North-Western Prouter, so no return are made to the other counseed with thom. But the impression found from the years of the Mindras samy reports is that the health of that jection employed in the Central Provinces is remole better than that of the other Native carry of Mindres are the statistics of the Bengal Native army stationed in the Upper Provinces are better than those of the garmons of Jower Bengal and Assum.

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(817) Appendix IV

Is there any advantage in Leeping up a separate purveyor's establishment for hospitals ?

Surgeon General J Her Innes Be tell Med cal Department and Princepal Med cal Officer But sh Forces in Judia

There is no advantage in keeping up a separate purveyor's establishment for hospitule, on the contrary, it interferes considerably in the efficient working of hospitule, and is more expensive than the old steward's system for which it was substituted in 1868. Under the stew and a system, the medical officer had entire control over the whole of the hospital establishments and stones, and was held responsible that every

thing in connection with the hospital was kept in a serviceable condition, and in accordance with regustang in connection was one angular was need at decreasing control containing and according with regis-lations. Under the pureryor's system the responsibility and charge of some and exhibitioned is directly between the medical and commissions the departments. At present the medical officer has charge of a portion of the exhibitionent and all the medical and suggest stone the returnished rich sear-units and articles of hospital equipment comprising dets, whose belong declining cooking utensits &c., no under the others of the commission the department. The pureryow within sommelly under the medical colcer's orders is entirely a commissariat subordinate by whom he is employed paid, pensioned, &c , &c He is supplied with quantum in the premity of the hospital (which is besident or new occupies), and in paramitted to sloop at this house (generally in the house, for which he seconce house and). What with hung in the house, for which he seconce house and. What with hung in the house, for others the commission and the commission of the godowns for supplies, the purveyor is seldom in the hospital for more than an hour or two during the 24 hours. In the interval, his duties are carried on by the establishment placed at his disposal, and the consequence is that in the absence of proper supervision, the work seems to be inefficiently carried on, and much inconvenience is experienced

To remedy this, the purveyor and his establishment should be under the control of the medical department, and the medical officer held responsible for the efficient performance of all duties in connection with the sick and for the charge of the whole of the hospital equipment similar to that of the

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At present the pureyor is generally of the Bengah Babu class, and consequently will not live in the heighted enclosure unless compelled to do so, and as hospital assistants many of whom are Bengalas, live in the vientity of the hospital, there is no teston why in exception should be made in the case of purveyors. In fact, the purreyor grade should be open to any class of men having the requisite qualifications and who are prepared to live near their work

The purveyor's establishment, excepting dhobies, should be amalgamented with the army hospital Natave corps, which will admit of the numbers being reduced and a better class of men obtained, all

amenable to discipline and under the orders of one department

Such a system, while meaching the efficiency of the hospital, and adding much to the comfort of the sick, would save the State about Rs 10,000 annually in the item of house rent to pureyors, for

the sea, would nave the content about set "10,000 demands in the meth of moists ruth to find not young to it is not just to Government that permanent queries should be revented for them (which are soldow or never occupied), and it the event time allow them compensation for living in the barry.

It is estimated that the cost of the stows of system amounted to should be 70,000 annually, that of the over all cost of pury eyes is \$2,900 annually, and that of the over all cost of pury eyes is \$2,900 annually, and that of the over all cost of pury eyes is \$2,900 annually, and that of the over all cost of pury eyes is \$2,900 annually, and that of the over all costs of pury eyes is \$2,900 annually, and that of the over all costs of pury eyes is the same allowed to the commission about \$2,000 annually, some yellow and of severally. The same allowed to the commission of all cost and the same allowed to the commission of the same allowed to the commission of the same allowed to the commission of the same allowed to the commission of the same allowed to the commission of the same allowed to the commission of the same allowed to the commission of the same allowed to the commission of the same allowed to the commission of the same allowed to the commission of the same allowed to the commission of the same allowed to the commission of the same allowed to the commission of the same allowed to the commission of the same allowed to the commission of the same allowed to the commission of the same allowed to the commission of the same allowed to the commission of the same allowed to the same allowed

Surgoon General 7 P Bentson M D Indum Medical Department

A direct categorical answer to this question is somewhat difficult to fine, because of the absence of any indication of the manner in which it is proposed to provide afterwards for the duties of the purveyor

Under the system which the present one superseded, a number of the spotheeury does with the title of sleward, dealinged the dutes now dowlving on the property and considering the himtel professional tuning which the subordinate moderal department than recovered, there was limited professional trusing which the substantiate moment departments that received, take was modifing absolutely grotesque in the amangement but now, when the educational advantages enjoyed during; three years' residence in the medical college have given the Government, in the members of the substantian reducial department, a highly trusined class of professional men, it would be, in my indigment, a clear waste of skilled efficiency to revert to the state gove site. But might not the question be appropriately put in a disjunctive form thus—Or it kept up, might not the medical substantials was substanted for regiments be reduced? To the latter put of

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The more numerical statement, however, gives but a very faint conception of the real increase The mean numberal statement, nowever, gives use a very nume company of use test increase of strength, massumed as such of the three summer giveds his recovered a most significant famished, professional truming, readering the passed hospital apprendice perfortly able to perform most efficiently the duties formerly done by the same subscribute alone. Moreover, the Buthsh Middical Department hay, more thru cose, pet it on record that the supressed inspiral apprendices are of no red use on the regimental hospitals; and thesefore, with the sanction of the Government of Inda, conveyed in latter No 12148 has becomed in 11th August 1579, huntrition of the numbers of this grade to be entertained has already been earned out, by admitting ten only in April last Apart from those composing the military class students at college at present numbering sixty, only a moderate number will remain for attachment to regimental hospitals during the pre collegiate only a momenta numeer and rearrant or attentiones to regimencial magnitude using a proof, securing a given economically, but what not made greater measured, then opportunity of sending them to selected inspitalist, where the modeled staff, commissioned and variously national content to the pennal interior in the turning of the hoist, and form within therefore, it may be found, they will energie with not only a respectible preserved professional geometry, that who is betiliary most channel of 10 he years, the improvement in the conduct of these had alrange the college course channel of 10 he years, the improvement in the conduct of these had alrange the college course. has been most muked and satisfactory, and affords substantial ground to hope for still happer results in the future

Surgeon General C A Gordon Principal Medical Officer British Forces Medical

advantage in I coping up a separate puricyon's establishment, in so far as the hospitals of British regiments are concerned. It is of course essential that a particular class of employes have charge of, and be responsible for, the stores and resumes unto harvestar uses a compose a recompose and consideration of the consideration of t pared indicate for such acticles as were sequence, boung, for the performance of his duties, duredly responsible to the mached officer or langue whose constrainganture of 10 requestions, function, stands, and excende of expenditure was required in order to give validity to such documents. Of late years, the choice against nike here replieded by the off purroyens, a choice of mon appointed as against by the commissional dequational who are in on vy responsible or amendite to the model officers, to whom in feet trickies most only issued or remainture, and while of replie, down adopted to have access to the stores from which his sock was provided, the except being so failing which we have been about the form one error or models, the quantity of cidding call bedding somily would have the considerable of stores don't for monototic and the store of the contraction of the contracti demnines such in the present a squass that of loving size uds, as the formally were, while to my much the disadvantages under the custing rule me so many as to indicate the propriety of returning to the conditions in this respect as they formerly existed in the Bengal pre-idency

Dr G Smth MF Surgeon General Indian Medical Service Madras

concepplies as they are called in this presidency, for the wants of Maters

regramental hospitule works satesfactorily At single stations there is one purreyor at large stations such as Bangalone and Sceundershad there are two At the presidency

The system under which the commissional provides purveyors, or

From my own experience and observation I say-No, there is no

one pureper "to arge student star in Sunginot and no-contraction under the two "Association to the foot-town one sufficients for all the Nitrie regimental loopitals including the body graid not the Fort-depensary. If thenges be contemplated 1 would stongly deprect the transference to the medical subordivide depriment of these dates. These monitors subordivites have received an expensive proemorphised depretament at uses dimens. These monitors associations and reserved in a repetitive form freesonal elementor and they proform professional and semporared distinct of an important kind,—duties which showed all their time. Were the duties of pure sport superadicel, their professional value would be greatly dimensioned, on little y useful to be exposed, monover to itemphistons which implies secondly affect the engade of the whole depositions. To employ such agents as purey ors would be to adopt an agency equally mexpedient and expensive

Depuiy S rpton-General I M S Page Officiati g Surgeon General Br tish Ferces Bombay

The purveyor represents the commission department, and he is the keeper of commissatiat stores in the hospital 'A medical subordinate performing the duty would be more satisfactory to the medical officer In British hospitals, elsewhere than in India, similar duties are per formed by the officers of orderlies who are under the orders of the medical officer in charge

Dr Cole a Sorth Deputy Sur goen General 1 I an Medical Do partment Madras

In Madros Nutive infantry hospital, there is a purveyor or a contcopillar who belongs to the commissarret department, attends and supplies what is required, which system answers well, and is very neces-One man is sufficient for all the regiments in the station

De J (blans Deputy Surgeon General British Forces Meerat

The work performed by purveyors is exclusively non-medical, and pertains to the commissariat department. On the principle of reliev mg medical officers and subordinates from work non-professional, hospital supplies rations, and clothing should continue in the hands of the commission department, and consequently their care and distri-bution entristed to servants of that department

Deputy Surgeon General S C Town old Principal Medical Offi ter harmin Field Force

My knowledge of the system on which the hospitals of European troops are supplied as limited to what I have gained during the few months that I have held administrative charge of this force but so fur as this experience carbles me to judge, an establishment of the kind

Surgeon Major T G Hewlett C1 Act og Depuly Surgeon Ges eral Smd De 18500

I do not think so, as in my opinion a hospital storard as all that is required. A regimental hospital is but a small institution compared units some of our large enth hospitals. For exemple, at the Goodhise Taylot Hospital, one of the large Native hospitals in Romings where there are 124 it else and a duly average of 112 printings, and where there is only one medical offers to superinteed all the work, I managed the analysis of the hospital with most according to the Native which the distributions are suffered to the hospital with most according the Native which had the entire accounts of the hospital with one steward (a Natave), who had to provide its own closh. I saw and examined the whole of the food and provide its own clear. I saw and examined the wave of the cooks I all hospital supplies daily before they were served out to the cooks. I

periodically inspected the story rooms &c I am of opinion that a hospital steward would do all the work of a regimental hospital. I think there is no necessity to have a clother and a tailor on the permanent establishment This woil can be given out on contract, and I also thind the washing should be done by contract I see no necessity why the purveyor or hospital steward should have a peon. If his stores are arranged systematically the work is much more casely per formed

Surgeon Major J P ethall m.n Frammer of Med cal Accounts Bengal

The system of purveyors was instituted in supersession of hospital stewards in 1868. He is the servant of the commissiviat department His duties are

to issue when required to medical officers such articles of equipment and supply as are provided for hospital use,

to be present un hospital during the day for duty, and to receive the orders of the officer in medical charge with regard to resues to lay out the articles composing the diets and extras for the day in bulk for the inspection of

the medical officer at his morning visit and give over for issue to the sick in good condition and in time for their meals

to arrange for the fortunghtly tunning of the cooking utensils, to issue duly to the lospital seigeant the oil and cotten wield required for the hospital lamns

to see that all articles of hospital equipment are complete according to scale and in serviceable condition .

to see that no articles unservice ible or out of repair are kept in store,

to see that all hospital bedding and clothing are reputed and washed and to issue clear articles for patients as often as may be considered necessary by the medical officer

not platents as order a may be considered necessary by the memory office.

To report to the medical offices discrepantices between issued and returned hospital equipment to see that the scaled bedding and clothing used by potentis suffering from infections discress are dismicroted at the hospital and then sent to the nesherman

to prepare all returns and vouchers connected with his stores and establishment

to arrange for the authorized supply of marching or railway equipment when a corps lewes

At the time this class was instituted, it was considered that not only would there be economy in the measure owing to the reduced rites of pay they would receive as compared with that received by the steward but that being the custodian of the stores and directly amenable to the comm saunt department, the security of the stores would be better ensured, the responsibility for the same resting with the purveyor who s a servant of the commission is already stated. I believe the system of what the purelyde win is a set via on the commissions is a state of season as and a characteristic considered effective, and the result, I think fully bears this out. Although a better class of men, possessing greater untelligence, outlied not be obtained for the pay allowed I believe the men now employed no generally considered to the pay allowed I believe the men now employed no generally competent for the performance of the duties entrusted to them and unless much better grounds can be shown for disturbing the present system than I am acquainted with, it does not appear to me desirable to make any change. It can hardly be expected to secure the services of better and more atell rept men unthout menered outles

Surgeon Major J H Porter late in Medical Charge of Field Hospital list Di sion Ponhawar Valley Fueld Force

None, the purveyor's establishment should be as much part of the hospital as the apothecaries. A separate establishment is a decided disadyuntage more especially on active service, where, under the present system, it is likely to become detached

Surgoon Mujor C Martin Army Modutal Department 13th Hussars

Under the regimental system they are necessary Should the general or station hospital system be introduced one purveyors establishment would be ample for charge of whole, in a station where four or five corps might be quartered

Can you provide data from the experience of the late campaign of the relative capability

Of young and old soldiers to endure fatigue and exposure?

(2) Of the value of hill stations to health, and of the effect of stations like Peshawai on the health of regiments taking the field?

(3) Give the Commission your opinion generally on the question of hill stations, then value as sanitary for the resort of invalids, and for the preservation of the health of young soldiers respectively

Surgeon General J. Ker Innes Br tist. Medical Department and Principal Medical Officer. Br tish Forces in Ind a

The question of the relative powers of old and young soldiers to endure fatigue and exposure in a campaign forms but part of another and larget one, that of our present multary organization as an importal power and as this scenis to me to involve several points of an essurtially medical character, and such as can best be determined by considerations and deductions from medical statistics, I desire to touch thereon, although I should trench upon ground that rightly comes within the province of political and military economy

The main elements of the problem are-given in insulii power holding military sway over many and district colonial possessions, the constitution of the country being immical to conscription in any form where recreats must be taken young to be wroted, how best to manulane an urmy of adequate strength and efficient quality with a reserve as adulte in case of national necessity? To this problem must be added the prepondersting consideration from the standpoint of the Indian Government, or , the military requirements of this country

The short-service system has the following advintages at tends to procee a celebric army, thus relieving the State of the expense of barriels, &c , for married soldiers in the future, and of making

available the accommodation now taken up by them in the present

actuation and accommunication new masses up of section and present.

Supposing, what is an absolutely essential element, a sufficient interval of time to chapse, its operation would seem a reverse on a sestion practically the reverse of that interior followed for in our purious was (Pennasilu, &c) the phase of the relevant traces in the field were taken by manytue recents from home, while new the places of the joung troops in the field would be filled up by the older soldiers from the reserve

On the other hand, the disadvantages are that the men compound an army are manifestly on physiological grounds not sufficiently matured to withstand the hurdships and fatigue meidental to field service, they have resiliency enough, but insufficient resistance they are drilled, but not trained The difficulty of getting non commissioned officers of the right stamp, and in requisite numbers, is metersingly great the expense, so far is the invaliding transport of time expired men and from service system is concerned, is great, the composition of a corps is hible to frequently recurring fluctuations, in consequence of men taking their discharge when their training is perfected, the weakering of discrepline and organization and sport de corps entured thereby and the reserves may deteriorate, or not become available when required

It will be shown bereafter that, as far as susceptibility to chamater discuse on the one band, and melficiency in the field from lack of power to withstand fatigue and hardship on the other, the young and unneclaratized corps and soldners of the present day contrast very unfavorably une young and innercontracted corps rate sources of the present any contract toll interest unit the collect and each attack corps and men of the past of present time. The soldier is subject to the sone-love as the whitner annuals ere, that the violat and arctical possess powers of conformation thick the joing and parametric do not, and a soldier under 23 years of ago is consequently relatively

melicient in the field

It is necessary, however, to avoid exaggerating the effect of age on efficiency. It is a mistake to suppose that a soldier of over ten years' survice is better than one of five, he very friquently is not so good. In cheorfulness, fulness of hie, and resultency, the younger man notoriously enjoys the advantage. His physical defect, as for as comparguing is concerned, is want of endurance, his frame and constitution require good food and periodical rest for a short or a series of short efforts, a young man is quite as capable as an older one, but in sustained effort in Jabon, and under priv tion, he is manifestly his inferior. For many obvious reasons older men are required for the non commissioned ranks, and it is a Strite question how such men are to be retained, but playsical and moral degeneration are allied and commonly revaring pass. Where the former exists, it is not, as a sale, counter-

To hand our constant of the control canes, and the control canes, and the control canes, and the control canes, and the control canes, and the control canes, and the control canes, and the control canes, and the control canes, and the control canes, and the control canes, and the control canes, and the control canes, and the control canes, and the control canes, and the control canes, and the control canes, and the canes, This circumstance, taken in connection with the large majority (00 year cent ; who are rejected by the medical officers as manifemently matured to stand the hardshaps entailed by military service,

by the freezam ouncest at manuscentry matures to stand the increasing customs of manual very contrast the age of the North German recent with those of Wartenburg and Bus una Assuming ten years as the mean period during which a solden is at the greatest efficiency, and allowing that period to range, as regards the solder's age, from 25 or 21 to 83-24, we must further the contrast of the solden and the contrast of the solden and the contrast of the solden and the contrast of the solden and the sold add that a man is, as far as India is concerned, it his best, in regard to physical health and *awrale*, after two years' service in this country with in age ranging between 24 or 25 and 31 32

The disease of which joing and unacelimitized soldiers die in this country is enterio fever. The hability in the case of the soldier of over seven jents' service in India to die of this disease is 8 87 as contrasted with 82 11 in the joung, and 13 09 in the class readent from fire to seven years, reckoning the hability at 100

the bressing, vi. 100.

Thing a strength of 28 758 men, 10,745 of whem are from 20 to 24 years of 1ge, and 4,488 from 25 to 24 years of 1ge, the artificture from enterns breve decays the first free years of services and the control of 27 of 10 10 for repeatedly, or occeptantly, as 17 of 10 10 for repeatedly, occeptantly, as the set deals from entern. Here is consent in an elevant to the set of 10 for repeatedly, occeptantly, as the set of 10 for 10 for repeatedly in an elevant to 10 for repeatedly of 10 for decays of 10 for 10 f

as lifely to the of enterne fever as of all other discrees put together Out of 73 reguments and brittenes which come to India between 1871, and 1877, nine only, says Dr Briden, from whose reports the foregoing data are derived, and uned free from enterie forer in the first twelve months after landing

I reference to the occurrences heremafter detailed in regard to the relative efficiency of young and unerseased as compared with old and assented troop, drug from the repairment of the relative efficiency of young the unerseased as compared with old and assented troop, drug from the expense of the Sth, 171%, the remaining of the rest of the brur, out vers electly the great relative pool in ity of the drafts not only to succumb to a special form of diven s—entère fever—but to become daubled from the more ephermen il forms of discuse.

the differences between climatic as contributinguished from endenne diseases must be borne in must the former comprising admens's induced by altered conditions of temperature, health, clariting, that is, the latter being special to the distinct in which they exist, and for the most part

affecting both European and Antive indiverminately

Irrespective of an increased ratio of morthity, with a corresponding morease of age and length of seven common to all other countries, Indian elimates and conditions of life occasion high and mercaning detth ratio with increased ages —

Bolies of men compared			Drates	PER 1 000		
Doubles of men compared	Under 20	20 to 24	2» to 29	30 to 34	3a to 39	19 m d upwards
Troops in the United Kingdom, 1863 to 1872	2 87	ə 12	6 79	12 58	17 76	21 16
Civil male population—England and W iles	711	8 42	9 21	10 23	11 63	13 55
Troops in India, 1871 to 1875 {	5 64 5 18	12 J9 10 33	15 02 12 17	19 80 16 87	29 90 27 12	al 64- 46 97†

Invaliding British Army of India from 1871 to 1878

		Loss	Per I 000
1871		2,381	43 62
1872		2,438	43 21
1873		2,434	44.58
1874		2.411	48 78
1875		2,371	40 2a
1876		 2,276	88 90
1877		2,452	42 25
1879		2510	44 98
Average		2,413	

A sense of admirtible tables illustrating almost every point affecting the health of the British Arter troops are given in D. Bryden's Statistical Reports, and that for the British army of India 1871 to 1876, is expectally notewathly a

Although a healthy man, odmantly crounstruced, whose vge runges between 23 and 38, will attain his avenum of uvefulness after the second year of service in this country, this period is capable of being numbraned and prolonged by readence in the mountains, in a climate crientated to mandam has physical powers, and in the case of young soldness by returning them in the hills for one or two young, until they had needed the egg of 23, before which a man is untified for field services, there can be no doubt that they would be sweet from much of the disease due to conditions of locality under which they now suffer, and ture would be given for the system to become matured while it would be undergoing a process of accommodation (accimination) to an Indian climate

and me.

The benefits of hill stations may be summed up under three beads first, they confer a higher standard of health and strength on the young solder, an addition to dimmissing, if not averting discusses medicated be arrived in the plans the debthisting effects of extreme beck, and the removal from the sources of forw second, they benefit the older and more exchantized solder in the same discussion, and the removal and the standard of the standard from the same fine the same fine that the standard from the standard from the standard from the standard from the standard from the standard from the standard from the standard from the standard from the standard from the standard from the standard from the standard from the standard from the standard from the pound from the ground from the guide from the standard from the nature of the ground from the guide winter would, in many crews of diseases, prove beneficial, but it is attended with disadvantings and grave discondards. I would not therefore were the multipaction of all vantaria, but would strongly adverte the extension of hall stations for regulated to hall the standard of healthy through wherever these can be exhabilished.

There can be no doubt that it is under the first of these heads that the beneficral influences of hill stateous even be best and most profibility datalogod. If the European saking be phased in the hills, where heat is not full and mrivars a losed to a mammum, a considerable step would be made towards assumishing his position to finst to which he has been acconstomed in his one country

assumating his pastion to that to discense of the soliton has been excessible in an own contant.

The belief that the difference of the soliton is impured by full reasidence when relief upon for the endurance of opposits conditions is a full-mouse assumption, and the contrast exhibited in the cases of the 5th and 17th Regiments as compared with the 5th; 7th 18, and other corps during the late Afghan

campaign, conclusively illustrates this [vide next page]

The expenses of the curpying not only lungs out vary strongly the afterns minence of presume nulmons disease in the constitution in dimunsing its power of restations to cold var decreases but nu necessing the liability to palmentry disease, and vary nothing inflammation of the lungs in the new of Nitto totops. Nor the effect of residence in a unbanues dimined lumide by these cold, lot there are very good grounds for belowing that one of the more remote effects of age in the case of Luropean theory is the development of turbors. (unimonally consumption) in first, residence of a certain direction in India, reliborated by retain to the Lugisha change, exceeding in its power of producing philans; the lowest neffects of the most destates the rather?

The question of hill stations has gained increased importance since the short-cervice system has become established and it is clear that a multiplication of mountain stations, mainly for the location

of young and recently arrived soldiers, must directly diminish the number of invalids yearly sent home as well as the unnual death rates from enterio fever and pulmonary consumption

It is very difficult to estimate the influence of presions residence in the Peshawar Valley, as contrasted with a residence in bill stations, on the efficiency of troops in the field in consequence of the presence of a number of other factors such as age, length of service, &c, all of which would have to be taken into account and would tend to vitinte the conclusion, but the experience of the late was has furnished examples of corps taking the field in which these disturbing elements either did not

exist at all or in so inequificant a degree that they may be practically disregarded.

The 70th and 81st Regunents had been contoned at Peshawar (the former, 70th, talling the field from Mooltan), while the oth Fusiliers and 17th Regiment had been quartered at Chalanta and Murres

Hills respectively, before proceeding on service Deputy Surgeon General Hendley in his report states "The 70th Regiment previously located in Moditan, and before that in the Peshawer Valley for three years, was in a most unfit state for such a service. They were very weakly at starting from Moditan, were exposed to great hardships on the road (which was a very difficult one are the Dera Bagh route) to Quetta, and suffered very much from from (mine) was a very dimensione the late port large course to estate an instanct of the month of fever and bowel compluints. Their docless were filled each mirch with their seek, but many available camels were employed in currying well by men, 101 men were left behind at the brise hospital. When we crossed the Kajal, 67 men were sent to the bise hospital at Kindahai, on the minch out towards Books, and 21 were sent back to Kunduhar from the place they were builted at, and a fresh batch was about to be sent when the regiment are recalled to Kandahar. They were so workly on the murch that the officer in medical charge of the field hospital seldom had a spare doolie, all being occupied by the sick or weakly men of this regiment, bowel complaints and fevers the prevailing complaints

the size, or which seed to this regarment, shows compliants and nevers of probability compliants. There were only three dutils however, up to the time of the breaking up of the had Disposin "Begreining the Six Beginnent, Sungeon Blupe Mortan reports as follows — "When has visi Reguents, Dougeon have not not not seen the six follows to "When has visi Reguents proceeded on folds server on Movember is styling from mon of minimizing age proceeded with it. Here we are may roung soldners, but of these not more than three or four were said bock from the front the beat hospital at Padamu tr "

Dr Martin goes on to add that his experience of the regiment on field service was limited, as the

men "melted away" rapidly under the exposure to wet and cold during the week following the 21st November At the end of six weels the regiment "wis sent to the rear is unfit." Dr Martin expresses his opinion that see as a fretor had nothing to do with the men's power of resistance iguast' cold and ardinous night duty," and he puticularly notes that the men who had passed the previous hot sessin in Peshawa nere the flast to succemb, "a hale those at Cherd and

elsewhere resisted the unfavourable circumstances and remained a different class of men up to the end " In contrist to the above let us take the case of the 15th Pusilers This fine regiment left Chakrata on the 18th October 1878 742 strong, they reached Peshawu 740 strong and left behind them at that station 11 men suffering chiefly from sore feet, the result of the long march (28 miles)

from Nowshera the previous day

Up to the 13th May no deaths occurred among them, and very little sucl ness A total of 137 men were sent to the field hospitals, about 2 62 per cent per month and most of these returned to then duty.

Three lundred men went on each occasion to the Barry Valley, going it rough the usual hardships

and exposures merdental to such service such as frequently wading streams, &c , but in the opinion of Surgeon Major Toppetts, the medical officer in charge, the health of the men was improved thereby 1 17th Regiment — Dr. McWatters says that the great proportion of men whose ages varied between 23 and 20 years, with only two or three years source in Indra, caused this regiment to be looked on as "the fixest British infantry regiment of the 1st Driving Pashawa, Valley Pold Torce",

and there is but little doubt that to the previous residence in the Murree Hills the efficiency of this battalion may for the most part be attributed The value of young and unreclimatived as compared with older and seelmatized troops.

The following table gives the composition of the 5th Regiment as regards age and service when

the corf a Joine	T DIE 1	Сэпам	at va	ney 11	end to	ree -	•							
			A	55					-	See	TICE			
	Under 20	20 to 20	25 to 30	30 to 30	3u to 40	40 and	Total	Unde 1 yeu	2 to 3	4 to 5	5 to 10	10 to	15 and over	Total
Number of men	5	188	188	256	133	26	746		82	72	154	255	183	746

Up to the 13th May the almessions were only 2 62 per ecut per measure, and there had been no On this date a draft 106 strong, joined from England, the composition of which was as follows -

				-	-									
	_		A	E						Sce	TOP	-		
	Uı ler 20	23 to 22	40 to	3) 3)	30 to 40	40 and over	Total	Under 1 year	2103	8 to 4	Stap	3 to 10	10 rad over	Total.
Number of men	3	26	17	18	2		106	4	71	27	2		2	100
	-		-	-	ieros:	-		1		l i				ſ

From and after the 13th May the such list of the regiment greatly increased, and the men suffered severely on the much to Abbottabud, both from cholera and force but, as D. Impetts remarks, the voung soldiers of the draft suffered out of all proportion to the others as is shown by the following -

	Strength	Total Ad ur stons	Total dentils	Proport on of death to strength per cent
Men of regunent .	746	218	2,	3 33
" of draft	106	86	15	14 15

Out of the 25 deaths among the older soldiers 21 occurred from cholera, and one man was murdered at Basawal, so that only three men out of 746 deed from ordinary causes, as against seven out of 100 senons, o case only enter seasons of 100 senon examinations of 200 senon to the 100 senon the drift, replaced —Dr McWatters reports that on the 90th January 55 recruits joined the head quarters of the regument, their average age being 30½, and service 1½.0 Of these, up to the

21st July three men died at disease

On 21st March 71 recruits joined from England, their average age being 21,7 and service 1,7 of these live men have died-two from cholera and three from fever or its effects, and he notes that of these are men have ones—two root subsets and three from fewer on its effects, and he notes that the average drifty sick rate per cent of strength has been 16.7. No ecception is taken to the quality of these recruits who are stated to have been a "fair sample," except that "they were too young and not sufficiently recharacted for field servee," and the relarms show that they suffered severely from the userd discusse of a computer. It is notworthy that the cases of enterior fiver control direct exclusively among these recruits. Densitive a way nextly general in the regiment, but, occurred to un excessive amount rangegt the younger soldiers. Dr. McNettons expresses, however, we arrow that cables of the date, the nonemental o'dat features," and of the batter over the control. an opinion that soldiers of the class denominated "old Indrans" are not the best on service, but men of from 23 to 26 years of age, and with only two or three years. Indian service. These endured

to from 2 to 20 years to get, aim wan only one of sarrey arise another service interesting and with less majory to health than men of any other does in Table contract a 155th King's One Builders — Le vite reports that the young soldners satisfied from illness in a fin greater proportion than the more seesmend men. He says it appears to be a mistake to tillow any soldier under twenty two years of age to go mio the field, and that from that age to that yeems

to be the best for men on active service

A drult that joined from England in Financy suffered very much, and since the return of the regiment to the Poshawar Valles the cholors pressed heavily on these men

The young soldiers chiefly fill the hospitals while older men are puo e to break down altogether 72:1 Ingl landers—Di. Cotton behaves that soldiers under 22 we e fir less efficient than those between that age and 35. The younger soldness fell out on the march in a larger proportion, and suffered from gue and remritent fever

1 12th Regime it -- Dr Andrew avers that the chief difference between young and old soldiers on service as regards discuse consists in the increased liability of the former to attacks of enterior fever, there having been six deaths from that cause among men under 23, and only one among those

over that age

2-60th Regiment -Dr Burges baxing made some long and taying maches with the 2-68th and put of the 58th, nearly all of whem were seasoned solders reports if it the lend only two men.
Lilling out, both of whem were manuture boys letely punced. He considers that young and immutare
solders up to the ages of 21 or 22, not make the stand the fategues, briefshipe and providence of a

campaign 51st Light Infantry -In this regiment the greater number of admissions and deaths occurred first in the soldiers under one year's service, and next in those of from one to two years. It is added that, "owing to the immature age of a great number of the man, they succumbed under paration and climate and were less able to undergo fatigue than the older soldiers, is noticed during the very taying muches from Afgl mistra to Peshawir

Ist Squadion, 9th Lancers -The men composing this squadion were nearly all of mature age, and

suffered very little from sickness of any band

The 2 Sth Registeri arrayed in India in December 1877, and was stationed in Rawal Pinda up to the time of its im; the field Dr Gibson reports that on assuming method charge of the regiment, he maps that all my the field Dr Gibson reports that on assuming method charge of the regiment, he unspected and found it composed of a great number of young soldners lately recruited of some who land served for favor or a years at home, and a small number of veterans, volunteers from the

The joing soldiers were arrenne and suffering from the effects of their first hot season in India About 220 of these were left behind at Rawal Products unfit for service, and 690 joined the Kuram

I seld Porce

After the first day's march those who fell out were almost exclusively the young solders. The number of sick annoyet this class inserved typidly, and when the regiment marched into Aobst (100 miles), 125 men were in hospital, and 25 mere had to be carried, making 150 inselicunt on

that day

The regiment remained three weeks at Nobrt, 110 men who had been left behind at Rawal Pindi joined head-quarters, muching with the 72nd Highlinders The officer commanding the detachment told Dr Gibson that they were quite until to much with such assessment men as the f2nd, and when the column entroid Kohai only 55 of the 110 men were with it, the test being either in bounted or struggling in the rear and 15 men hed to be immediately admitted to hospital 110 men were left behind at Kohai as unit, and on annal at Thall 70 mere were carried, although the muches were loth short and easy, 90 men were left behind at Thull, thus a third of the regiment had been left behind before field operations had been commenced or any privations had been endured. Nearly

all the em a ceroung sold ere both as regards are and service. He alds lowever that he you c men of the regressit rere. If it also and deep of sted and the int out. How will probably bestop the rowers of marriage male unuse of their that solvers u lere pears of age, o not sted the field one the results. for field one tons in In ha

4 / Rife Br quite - Su geon Wajor Wool reports that soll ers of the 4th Buttal on R fie Bi gale w. I He Dreume — on gone with the contribute was reported to the Interest of the Dreum make the examp on a light a track to see with the of matter over each of the of of the layer of the layer of the layer of the company and the buttalou into the fell and of the draft 139 man ere stool to be 1 der

il at are total 147 mer n ler "S

The drift writed at Bondar on the 19th Pebruary 1879 nearbong 309. By the time true of at Pecka or midden to Karel at a size test to 96 ctell for slares. The go region Bondy to Jhelum and the march from Il clum to Peska a cen middens of the chadjoed

trying to the me

When the draft are ed at Peshawar the boy shappes anco and small arrange s o of the men nere sulgests of reneri. Some 4 nen nere in git before and alliondus to itness for the were supers of rearm? Some 4 new were to get between a client date to these for the client of the client possed by the beautiful or per sent to loop that I be diff an acled from Pe have far I be about 1 bed for a client far I believe that I be about 1 bed for a client far I believe the client far I believe the client far I believe the client far I believe the client far I believe the client far I believe the client far I believe the client far I believe the client far I believe the client far I believe the client far I believe the client far I believe the client far I believe the client far I believe the client far I believe the Client far I believe the client fa entre buttion the 80 stong was specied by a special on lof med al offices s to the it ess for an an edute diseas pon Cilul under e camsta ces demanding end oe thout tests ad with a mamma of baggage sof the 197 men rejected belonged to the daft o nearly a third of rts nun I e

Ot 15 men who died of fe er in the cump ign. Il towards its close eight we e young soldiers of thed alt

Of 67 a. es of clolma lid socared on these raman 1 97 occ reds me of the laft Ot 30 men a all who died of other diseases than elidera du ng the cinquigi and on the retuin

marel 13 belonge I to t duft Of the total of 87 ke the smalle cromprogund notes made 30 occurred in non-of the high n lol llean n te fillkes than at eo moutls and bad not taken part many of the ty or expeli to sund of the bit lok, llean engaged—te second expedition to te Bu. Villey that to the hunar Valley and the first at 1 second expeditions to the Logi man Valley

Up to to prese tid to s far s II we were need from Ic I quarters of the b that on the

traft | c| | nde | n | | he ear months ago has lost | w dont | a 43 men

Stree at	739
Denti's offer than cholory	30
D tto n dr ft	13
Cases of eliolers	17
Ditto n l'aft	97
Deaths from el olera	a?
Ditta ndati	04
Tot I deaths dur g cumpa gi	57
Ditto u desft luring camps gn	36
Dato atto since la ingra infa	10
Proof Vi tor Cottoll 20th II on a world that it a second	

Suggeon M per Cettell 10th H are reported that the new ment consisting of old soil ers the younge to be rept to younge to he rept to younge to he rept to younge to he reput go man beginning the ment grown of 10 the reput go month of them ere resolved to the relationship of mental than the reput go month of them ere resolved to the relationship of mental problems.

Il e results are best shown a a tabular form -

Io g Soll ere										
Λ _o z		An as								
	Sten 1	C. 1150	Ye	Ra o o stren _o	n hes ta s					
Luler of	s {	D rlon Pilmonary (Fronchitas) Ic or Mil	6 1 1 3	200 33 3 33 8	127 10 0					
"O to "I	, {	Darken Plon In r Mil Offn (rundee)	9	333 00 2 11 1 77	\$ 41 87					
n] ia	-3 {	D wil an Broad (s for Mal	1	17 3 30 4	{ 21 7 43					
" loo3	1 }	Drice Othragon	0	86 °66	1 40					
100	10 {	Darrian Le er Wal	2 1	1 56 G	18 15 13					
*****	b		•3	13 9	องใ					

Scasoned Iroops

		Cause		No	Rate to stength	Days n hospital	
	(Direction Pulmonary—		60	119	892	
Average	401	(Bronchitis Pneumonia	22 }	28	6 98	512	
22713 60	1	Tever, Mal	, , , , , , , , , , , , , , , , , , ,	40	11 2	789	
	Į.	Rheum itism Others	14 }	25	62	581	
	401			158	39 4	8,271	
The more	ura ratio for	hors under 90 of 166 C	am cont is you	v of ml v	nor etaadala da		

The excessive ratio for boys under 20 of 1666 per cent is very striking, steadily diminishing in yearly increments to 1875 for recruits above 23 years of age

The chief cause of disability was diarrhom, ringing from 200 per strength per cent to 12.5 m proportion to age

A_ue, from which all the Rawal Pindi troops suffered throughout, affected the recruits in a much less degree

Comparing the raties for seried.

	 	Conquiring the rui	tos you perton			
	-	R	atio of Admis]	
	I Diarrhosa	2 Pulmontry	3 Ferer Mal	Total	Average days ta hospital	
Recruits		25 75	60.6	7 57	43 93	19 6

A marked tendency to pnouncoure, the result of provious malvia, among the seasoned troops is indicated in the above. Total percentage from all cruses 43.93 as against 59.4, and days in hospital 10 to 5.87.

6 98 11 2

39 4

8 87

149

It must be borne in mind that all slight cases were treated in camp, and therefore this report does not show the amount of sicl ness, but is rather a measure of its severity

1 20th Regiment — Surgeon Major McNulty is orts that the 1 25th marched from Junicod on the 21st March last and returned to India on the 31st May, arriving at Peshawai on the 1st June 1879

There were some old solders in the 1 25th and two thinds of the men who had to be sent to the hills on one occasion from Lunds Korli were men of long service. There were but few immutars soldiers in the hattahon, and no privations, propully so called, were encountered by the corps during the lette operations.

Until choler; appeared, the principal discress causing inefficiency were distribute, dysentery and fiver, all attributed to an unleadily company-ground, exposure and a changeable climite, and men of all ness and as the special to be made completely compile affected at Lundle Ketal.

of all yes and service appeared to be pretty equally affected at Lond Kerin.

There we very trying would in the Khiyle. Villay cutable I year, and might duty and the men suffect proportionally, not so much at the time, but subsequently from the after effects, at

Peshawa particularly the younger men

Seasoned troops

He estimates the two age age of the britains as it matched, 935 simag, from Jumrood to be about 282 to 23 years with a service of 44 to 5 years. A drift of 141 men, including many young soldiers, from Depind piened the britains of Lindin Korli about a munth previous to the return of the corns to India, they had, however, hardly any compy duty to perform as alout the time the fut making of essorts devolved evolusticity on the Nature troops. A relatively luge proportion of this drifts sufficied intervants at Pesthorny from cholers.

Dr McNulty adds that a soldier must be considered young at least for Indian service until he is 23 or 24 years old, before this period he is more subject to chinatic influences and that great source

of distbility in this country --- enterio fever

"Trom 24 to 35 years of age the soldier as at his best, and his the greatest power of endurance, after 35 h. kegms to 11 eff, unkess mided he has been made a non-commissioned officer. On the whole, I can in farre of the comparatually young soldiers with a lerven of older treen, so as to bring the average to 2s or 2d years of age."

The deductions marged at by Smgcon-Major McNalty are-

1 The very joung and old soldness are both most hable to break down under fringre, clumite, and exposure medicatal to field service

4.2 A soldier must be considered young for service in India under 23 or 24 years of age 3. Thenty two young fage would be the intest period of his for the soldier to proceed to India 4. The soldier, for his first year in India, should be located in as leadily a station as possible.

"5 The soldier's service in India should be limited to six years

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"6 Loung sold ers are peculiarly susceptible to typhoid but cholera equally affects soldiers of all

ages 47 A modified short service would be the best calculated to meet the requirements of India."

Surgeon General J. F. Benison M. D., Indian Medical Department

The d vision of the Bengal Native army into young and old soldiers is feehined rither than red. Paking ton regiments at random the figures are given in the subjoined table, an examination of which will demonstrate the fact it at the vast imager is in the rad s are of the age when men can give most easily, strength energy and endurance to

their work, without experiencing much injury to health or due.
The only men of the Native arms who are really located in the hills are Good has, they are no thally at home when there, and as a rule, service in the plants tells at first at any rate more upon them thun on the average regiment which may have been emitoned at an ordinarily health, at tion in the the same of this infainty to an enhanced rate of sich aces is in my opinion connected inthe e reumstances carrible of le ng lagely obviated, and in chief b, affording special facilities to them for obtains in rich ratio is an't epirile in the inderate quantity which they are in the halot of using mader or it s any erreun star cer

The effect of the chinate of Peshawar, and of other stations in the district, is certainly unfavorable to the health of the Antive army, acting apparently with an increasing power as the period of resul once is protracted. The real measure of the evil influence cannot, however, he every truly gauged by the figured returns but the truth is revealed when a call is made upon men long subjected to the climate of the station and d strict

The intervals of respite between one fever season and another are shorter there than alsowhere, and it would be too much to assent that may year has been a healthy one. The coase guener of this more frequent bribally to fiver is structural derangement of important internal origins, making a

rally improluble during the short season of comparative immunity

The cold senson of it a Aosthern Panjab acts beneficially on a man who is simply pelled down, but his received no real wound in inportant organs, radio opposite circumstances, it may be actually laut-ful to the receivery of health. I append a table showing the statistics of the Net ve may in the Pesture district jutting alongside of it for comparison the figures for the remainder of the presidence, eveluding loser Bengal

The iteral all influence of residence in the hills of Northe n India has always seemed to be very until processed. A healthy arm going there during the hot serion escapes the hotogramers of the planes and as no dombs very happy in the double empoyment of a more out-of dous if for not seripe from the routine of d is. But this is a comprisitively slight, and integration II, and jet I believe it as the most that can be predicated as the probable result of six months in the hills, at the season when

the presiege to obtan ible

These are, however cases which do derive very striking benefit, those, namely, where every organ is in good working order, and only debility after acute attacks of fever remains. Also instances of theumatism contracted in the plans are enpublic of being greatly benefited by residence over a winter in

I rom these sentiments it follows necessarily that I rate the beneficial effects of hill climates much more highly as a prophylactic than as a critical agency, and that therefore residence aloit is more describle for the normal than for the old soldier but beauty by neckness. In their cases the effect may be to a limited extent a hantageous list it is pall atine only, and simply postpones, without my real compensating leacht, the first measure of change to hardand

I ung sold ers now a days are rushed from al in to harrack by means of rule ave, and often reach if en sink in then the circum stances of the hot season made confinement to burneds almost compulsory whereves formeth a lea they came out by long sen and werehed to destination, they were lived and ft and almost experienced in the best modes of securing lealth in India hetore they joined their corps: My letter is that up a ore effective saustary reasone could at this up uset be adopted a land or or 19 to the spile of march god tring reliefs. Not only does camp life proto physically most that it is grately need in account of the first services. The distribution were samp one provided in the condition of the sender in the non-longer to contend with the distribution graining and interesting the control of the monotony of uncertaing drail and immenenting during the service when he should be cloudly employed in recording his health by their illy hings in the open air with the smallest restru it consistes to the the maintenance of discipline

		PFSHA	WAR DI	RTRICT		ARMY ENGLUDING LOWER BENGAL				
	-	Per ce	\7 or 82	DEVOTE		Per cent of Serenger				
YEARS				Inval ded					Jurah led	
	D is ed	Admye sons	Devtlas	For dis	Chat so of ch	Dally spek	Admissions	Death 9	For dis	Chun, e af elt
1513 1514 1515 1516 1516	4 JS 19 4 J 18 57	117 1 191 1 186 213 2 162 7	2 20 1 07 2 3 1 7 9 1	75 46 30 42 27	21 26 19 37 12	4 08 1 3 8 . 7 3 3	131 2 137 3 126 1 135 3 105 4	35 11 15 12 11	46 36 33 28 25	13 14 19 16 14
Average of a vegra	1 1 10	173 .	177	40	23	9 75	127 2	13	84	11
D Ference	70	103	17	11	1.					
					1		1 1	- }	ļ	

S rgeon General C & Gordon Price p l Medical Officer Bratish Porces Madras

(146) I cannot provide data from the experience of the late cam pugn of the relative empability of young and old soldiers to endure right the reacter expands of young and on somes to enture intigue and exposure. But taking advantage of the scope for remails, which appears to me to be groun by the instruction of the Commission, I would preface what is to follow by the observation that over and over agun, during the different wars in which British troops as well as those

of other nations, Luiopean and American, have been engaged, the point has been demonstrated that young men as soldiers when employed in then own native country on more field operations are more active and, in some respects for a short time, more enduring under fatigue and exposure than are the older men, but that the reverse happens if exertion and exposure are of a more viduous rature, even in their own country and in all cases where men who are Natives of a temperate clim to are subjected in their rules of multitury service in sent tropical clumetes such as India. Unless their four, the experience of the recent campaign in Afghanistan negatives the result of previous experience, the point, as

just indicated, may, I consider, be held as fully confirmed and established

This subject has engaged my attention for a number of years past and more specially since the period of the routing. The result of my observations and remarks regarding it we embedded in the person or one remony. And results of my constructions are relative regretaring to the emboured in the numerours to this document mark of A and to it I desire to refer the Commission. Be takes, however whit is addeded therein, I trust the following remains may not be will not interest with r fixence, to this subject. The question of the relative efficiency of young sold ers in I old is itself of I a voir early campaigns in India A reference to the history of the pear of from 1750 to 1735* gives numer erous instances of the immense cost in life of the young men of you our European nationalities, who, then under engagement for three, five and seven years only, underwent the compaigns connected with then more or agreement at more in or an event reason; another than the proceeding in Southern India's "six six the examption that the six on or e-organize soldiers of enhanced bountses for longer periods or service in India was from the experience thus acquired, and that when in 1797 a proposition was made by Lord Corna allis to transfer the local nequarce, the letter when he list a proposition was made by Lord Corno this to truster the local European forces of the Company to the Crown the measure was thrown out for the reason that were it adopted, new levies would arrive in numbers in India to replace the old material troops then in the is suppose, now zeroe women carries in minimize the grainst new suppose the grain to prove Government. It is thus scaleded apprects that the system sow in force, of brung in this country an early principally composed of very young mee, is simply a covernment to fast which experiments the contract of t men mured to descipline and conditions of multiry life being avuilable with the r colors It appears to me that historical references of this land are important in regard to inquiries like the present me are instituted retenues to any rim are impresses a regard to requires it of the feeth of would formulate, as follows, some of what appear to me the principal objections regards the existing system of an army of young collusts in India as regards that of long secretor nor having reference to sanitation and in connection with the professed scope of the present coquity, so.

(4) A large proportion of young lads, such as now arrive in India, are physically unequal to the s(run of active service, and consequently, while they continue so, are not only useless, but receive pay

for work that they do not and cannot perform (f) Many such have to be sent to hill stations, there to pass one or more years, that is, to all

intents and purposes to be retained in assesser until their physique developes sufficiently to admit of then performing duties for which during the interval they have drawn pay

(c) Instanted as individual regiments have certain duties to perior to a considerable degree prespective of the number of effective men present, it follows that the more there are absent at hill sta tions and otherwise, the hervier become the duties upon those at head quarties, and in proportion the greater a the wear and tern upon them

(d) If the rate of deaths among young soldiers is less than was formerly the case that of invalid-ing has increased so enormously that the actual amount of non efficiency by these combined cluses is

neally greater than it was fifty years ago

(e) The expenses of transport of troops from and to England has mereased to an extent beyond what would, as far as I can judge, supply the means of continuing liberal jousions to old solders as formedly, while if my views are correct, the combined effect of continuing and short service with regard to India has been to more than counterlalance the effects of all that has been done for the benefit of the soldier in the way of improved sanitation during the last twenty years, including paintial barracis, uncrease of hill stations &c , &c

With regard to this subject I would lay stress upon the circumstance that, as in regard to some other points of utal statistics, the doctains of accessors not only insufficient in itself but absolutely misleading with regard to retualities as more fully explained in annuaire A. As a matter of fact some men maintain their health and mintury efficiency ruich longer than others, some are in better health in India than they are in Lugland, although of course their number is comparatively small, and as in the case of officers, so there is no reason to doubt that in that of men a year or two at home, say with a depôt or limled battulion in the case of soldiers after six or eight years service in India, would re establish their physical powers, and by enabling them to continue their service, thus maintain to

The following particulars regard ag if e per of for a left at the time incidenced sold ers a I if a wave regage! and if is amount of boards given have been in life or most sold to me by Colonia W. Waters of the Madries Army. they will destilled but intures to the Army Organizar of Commencing Larmy?

^{19:00} f a vera * bounty £10 per man 19:1 Serve Compair a engaged for even pares from date of land ag 19:07 Volum term from Mrs. Negoty a £10 and dad for three verans 10 pagedon bounty 19:00 Volum term from stermed fill the Magesty a reguments 11 India 10 pagedon for file veran 5 pagedon for three lents

¹⁷⁸⁸ three years fixed as it is period of series. Boundy 10 pageolas.
1780 Jean 17. The slow terr we having been for mit to be of 10 administrating an any respect but on fine contrary, to be dissidirating one and momentum, the term of five years was revert d to, 20 pageolas boundy.

(828) Appendix IV ?

Government a more efficient fighting machine than does the present system, and that too at a

dimin shed cost "

With r grad to the first part of this question, namely, the value of hill stations to health, I reply thus Typercence has amply shown that as in the case of officers and then families so with soldiers and their their chances of maintaining their health in the cool chimite of hill stations is as a rule. considerably greater than in the hot chimate of the planes, nevertheless that this tale must be accepted with cert in limitations and provises. An adult to derive fill advantage of a hill climate in India must be free from organic disease, not of relaxed or sendulous dividuous, and functionally sound as regards organism and restiration even then the change of atmospheric conditions by no means seldom induces an utifal of illness of one kind or another the hability to suffer being in proportion second natures as ment of infers of one same or necessity we making to same length of projection to the length of time the person brid previously resided in the plants, while again, persons not by no means seldom met with take, beyond doubly, oneyo better herlith in every respect in the plants than in the bills. The circumstance is notoneas that young children whether of soldiers tall on from the plums to hall depôts on of oil cars taken to these resorts, suchen and die in very large proportion, often plants to hall depicts on of elects taken to these recorts, secken and die in very large proportion, often indeed larger thru what huppes to the see who centum in the plants, are at the further improving the to be cantical their around all closes of persons, whether young or old if it dangers a considerable to them if long uttacked with inless on the argunt deceading to the plants and particularly as to cheer, wheneve that discuss as parallellor in the district to which they proceed. It may also be happen that, in consequence of a particular section being mibrilly, it is all if eithing at a long states, of a long of remulti narroung from Lighting and any pully to the one and purily to the claim, these who prove the last section in the Plants may at the end of it for in a better state of plant again, and assembly observed it the begaming of 1835 in respect to Wellington and Security in the first particular than the property of the contraction of the property of the property of the contraction of the property of the contraction of the property of the contraction of the property of the contraction of the property of the contraction of the property of the contraction of the property of the contraction of the property of the contraction of the property of the contraction of the property of the c undoubtedly possess me by no means without their counterbalancing drawbacks, that in fact actual occurrences indicate the necessity of our not expecting too much from hill climates

contractes indicate the excessive to an accessive good makes not in technical con-with negral to it second patton of the question energy, as to the effects of stations like Penharm on the health of regnerate than go the field, I can only rapily with reference to protected access and observation. This my Redwarm as no example of what is called a reference station, it which solders, it reducts for a considerable hinglik of time become effected with thesesses go designated, the result is that the longer the residence it such a station, the larger the number of men who suffer, the greater the extent to which inclumal encharg, with or without organic disease becomes confirmed, and thus the fewer the men whose condition enables them to undertalle active military survice. No doubt the excitement of the field has, in some instances a remailable effect upon the paysique of

individuals, and, on such occasions some recover their health in a ternal able way, as a rule, however, conditions are more or less martly such as I have here represented them conditions to more of te is north such as a nove near represented mean (3rd). My treus on the milyect of 111 strittons get early have already been expressed at consider the kingth, and don't lice my observation from the subject may be obtained as published, should the Army Organization Commission as desire. My opinions with regard to the question of the value of those stantage me in part given in the preceding section of the present paragraph. For the sake of convenience of reference however, I summunize them as follows namely

(a) I be; do not afford to the troops occupying them complete exemption from the fevers more particularly medental to the plans, although those occur at such sanitaria in decieveed frequency and

severity is compared with the low country

(b) Neither are they exempt from epidemies such is prevail in the plants

(c) When regiments we sent to their from stations in the Hains at which they have been visited by severe sickness the he lity acquire bodily sigor, but the weally, particularly such as suffer from deringer and of the boucks, suffer severely. The higher the elevation and more neithern the latitude,

the more apprently are the latter class affected permenently

(4) In the case of regresents sent to a northern hill station a couple of pears after sustaining an outbread of cholers in the plune, and having presed the interior of unhealthy stations in the plune, the loss by death during the first year at the hill station has exceeded that of either of the inter mediate vents

(c) the writer season severely tries men affected with the sequele of fever or with organic disease, this upplies more to the bill stations in the north of India than to Wellington

(f) The I dulity of men who had suffered from periodic fever at Peshawai to be attacled with rheumatism and otherwise be permotously affected at a hill station, if sent direct to one, was so definite, that in 1851 the 11 n was adopted of sending such men in the first instance to Leiozej ore as in intermediate stage and as as recorded, with good effect

(a) It is so hypened this a regiment shed has suffered severely from fever in the plans and leen sent to a hill station in the haje of getting rid of it has, after a short interval, sustained a more excreasined of that discrete than it had in the plans

(1) As a principle, the climate of a bill station is well fitted to preserve a regiment in good health

if sent there direct from Lngland, or after a short residence in the plans rice on the ten on 19th August 1979 On 23rd of the same 1 only the subjound telegram dated Louise

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• T cale or a few cut two time on Bib signes 1907 Octavious transverse count measurements require the August 1907. The great many report of the Comme time appealed the Greatest seed of congruents and the Bible statement of the Sold set

a dits result attent of p. can spread our out of the definition of agreement as the enable of 1 me a Approble A.

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(829) [Appendix IV.

(f) Those who are beginning to suffer or whose constitutions have been lowered by residence in the plains will generally derive benefit from a residence in the hills, but those whose constitutions are severely affected, or who suffer from organic discuse, will not

(f) For three revens, the effects of menoring an eld service-nern regiment to the hills are not desirable, as viscoul diveases we prone to occur in a lunge proportion of the men.
(f) Such attions are definitely adopted for the accumaturation of the men of nevely arrived. drafts and regiments, for strengthening young recruits, and for the restoration of convalescents and of men lowered by certain kinds of disease (i) But there are several diseases to persons affected with which hill climates are directly imma-

cal, consequently such cases are, under existing regulations, prohibited from being sent to those

Hill stations, by enabling a person to pass through a hot season and to proceed home, thus

undoubtedly save lives that would otherwise perish (a) It has been observed that regiments suddenly brought from a hill station to the plains had

(2) If has teed of select the regiments senseary overgins are an anii source to me, peans and there to undepen process of endoughness sensearch smaller to a regiment fresh from Board pean of the first being laderin shill attitude and disciple and deprete them of the reputation they densited you put that for over estimate the ments of their chinates", also if it "full stations for Tunquean soldiers had been found somewhat disappeading," and that the development and that the observated satisfaction to the Stanla group as a residence for soldiers is less deductedly

favorable than had been untrespeted ? (p) The general result of observations is that hill stations are in their influence not so much

curative of divenses as preventative

(g) A considerable number of instances are related in which stelly regiments on being moved to healthy stations in the plans, as Rawal Pindi Barcilly, and even Dum Dum, recovered their health

more speedily and completely than did others sent to bill statuous

(r) As a matter of fact not only has the rule of most lity been less in some regiments occupymg stations in the plans than of others in the hills, but during the campaign of the mutany some of the regiments, including all three brunches of the service that performed the most adding service, had never been at a bill station during their period of service in India, amounting in some instances then to fifteen years, while the two regiments that were brought from the hills and immediately exposed to the fatigues of service suffered very severely

(s) Except, therefore, m the case of young and immature lads, I believe that careful selection is required of cases suitable to the hills and that no general removal of such men to such stations as pro per, also that as already remarked, the effect to be looked for of those characters as not so much curative as to prevent the occurrence of allness, and, in the case of young recunits, to enable them to grow

into men

ANNEXURE A

No 4, dated Madras, 30th October 1876

From-Surgion-General C A Gordon, H D , C B , Honorary Physician to Her Majesty, &c,&c,&c,

To-Brigadier General R C Stewart, Adjutant-General, Madras

I have the honor to acknowledge recent of your letter (Confidential) No 2027, dated 17th October 1876, conveying a copy of a despatch from the Sec etally of State for India on the subject of enlistment, length of service, and is engagement of British soldiers in India, and requesting my opinion thereon

As enumerated in your letter, the points upon which more particularly my views are solicited

are the following, tiz

(a) At what uge is the British soldier of naturally cound constitution of the greatest value in India, considering the nature of the services that may at any time be required

(b) As to the actual age of the individual, and period of residence in India, and how for the

most efficient age is affected by length of service in this country, (c) As to the age and length of service in India at which a soldier of good constitution may be expected to deteriorate in efficiency to such an extent as to render his continuance on the effective list no longer advantageous to the service. In this are to be considered, m reference to them value, military experience, habits of discipline, and all other qualities that go to make a good soldier

In more than one of my published worls in connection with army suntation, I have discussed the relative advantages and disadvantages of young and old soldiers, with reference more especially to the requirements of militury service in India

To the data there brought forward I shall now refer, in order that the grounds upon which I arrive at my conclusions in regard to this important question may be made clear, being well aware

that efficers of high reputation and of much experience hold opposite views upon it

4 I premark that the ram young solitests, according to my rows, as intended to upply to such as are as yet immediate in physical declaration of the such as the period at which a man driams thild physical materiaty vision seems of the such as the period at which a man driams thild physical materiaty vision one country as soldier might be considered a oung, in another a man of precisely the same age would not be so Thus, while a Greek or Roman soldier is considered to be fully matine at twenty-three years of age, a German, Prenchman, or Briton is considered not fully mature until he reaches the age of twenty five to twenty-six

5 It is also necessary to observe the distinction that exists between the term old men and old The old soldier, as observed by General Trochu, as the man of twenty five to thirty yours of soldiers age, who, while still retaining his bodily activity and day, has the advantage of military experience, and especially so if he has served in war, the old man is he of thirty-live to forty years of age,

(830) Appendiz IV.]

who espect and retirety have able failed, and who, in re engaging, has no further interest in the s resention to pass the requisit number of years to entitle him to his retraite

6 It is further considered describle to observe that, not only is the existing difference great in the churchorul and other conditions affecting uniting service in India as compared to those in the

Unit d Kingdom but if at this being the case, it is imr to expect that the physical state of soldiers must be modified recordingly

The principal sources of multima non efficiency are undoubdiedly suchness mortality, and invaliding It by no means happens that all these lear a constant ratio to each other. Thus there may be a high rate of sed ness with small mortility and my diding, or a small numerical rate of sick-ness with high death rate. But besides these, multivy non-efficiency may an efform incapacity on the part of individuals to undergo the fitigues incidental to service and jet the fact not appear in statistics. Thus men may full out on the murch in some instances have to be caused and so to all intents and [11] oses be non effice to a mid a burthum in regard to an netwo force which at the same time, there may be nothing in their condition to justify or deman I their admission into loss it al

S Still mother point must be alluded to namely, the manificiency of mere statistics by themselves to convey a correct impression of what they are often int aled to do Indeed this fallacy of

merages is alluded to in the despitch of the Secretary of State for India

In illustrate my menung. I observe that if we suppose a certain number of soldiers to die or be invalided, say at the end of two verus' serves in Indra, in equal number at the end of tan years, we suril o an everyon and find it to give the residence in the country as eas, a conclusion really at variance able will the incis on the one sale and those on the other.

With these results I proceed to observe that the relative advantages of joung and old

soldiers for foreign and tropical a rices is no new subject, their relative ments and dements were well understood in uncient times there were so also in medieval wars, but, for the purposes of this commu-

mention, it is sufficient to refer to more recent times

10 The late Dr. Robert tackson records the encounstance that, in the war preceding the French Revolution, several nearly raised regiments were sent from Laghard to the West Indies that though not a man of them died by the sword, jet, in the short space of two years, there servely was a soldier of them left

11 The life Sir Jimes WieGregor discussing the same subject observes that in the mine months from August 1811 to May 1812, the 7th Loot lost also in the West Indias, by death recruits.

the rate of 1/45 pa 1,000,00 soldies at the rate of 67 pa 1,000 the 40th Foot at the rate of \$20 of the former and 50 of the latter

12 General Chrogumer expresses masself-trougly on the same point. Writing of some men, he observes with such a system, we may have troops of tolumbiy * Un mot sur le profit le Pour gu pai e : l'imare l'ars 1867 good appraratee, but soft on occasions of frigue and privations. Were they he adds extemporated soldiers, those 50 000 men who under

General Boumparte, in the course of lattern months, gave an account of the Perimontess and Assis in remora? Were they not ly kared, those 130,000 soldness the, marching from their mem at Bouleyand in successful lilling, and a fee shape hirre octened Veneza? And he continues, variety of electron or non-gooded or the composed of such marketile lows many more men by prolonged marches and buon as il m by the bre of the enemy Well therefore does he put the query he these the remes called economical? He next q otes the distinct on drawn by the first A spotcon between young and partially trained hads for purposes of national defence and those for garesive was -

A country never is wanting in mer to resist an impasson of to support a great was but it is often wanting in soldiers. The coult at intended to be here drawn between the classes indicated by the

words it theized is sufficiently apparent 13 General Prochus observes that Napoleon's solliers who, in his successful war of 1800 in cluding the buttles of Arsterlitz and Juna, consisted for the most part

4 L Armée I antaise en 1867 of men of twent; five to thirty years of age, who aid ough young in r gard to period of life were old as soldiers and in experiment lso that when in 1807 to 1800 the service lo s to which his rumes had been subjected rendered it necessary to full the run's with young lads, he found that those immature conseripts because so many diags upon the mo e efficient; at of his legions hence his urgent demands upon the Seriet to send 1 mm incu not boys. In his appeal, he regions in the tast of selences, monthly, or minding, he preferred the logic of fiets to figure. The property of the service o The street was obtained to ten years that is, such lie has recluded in one of there is no should then be riched to ten years think, such lie has recluded in one of there is now should then be riched to serve on the reserve, a more is in his greatest their gift from his thrifted to her think the best of the a subtle. It is true the the names of hapk one is the component of the server of the s an authority are entitled to very great weight

Il Court d'entreue over gree acquir.

11 Court d'entreue gues yet mother example in illustration. In 1812, the old army of
2 poleon h rang been aduced to hil the numbers before Mosco. Le was forced to fall his rends with
c 1 mg s vith the rendit that notarit trading all their devot dues all their braces, and courges.

et raj s vitte tite reem ti ur retuur running un tiene seven oner an oner voor in 14 s flord noor eralls from the live ree and long metales than the old from the halfle of Lef-ces, Briters, Dr. den I cu ur of Hanen lo In Chapter VV of my wal on the Hagene and Sor, ery of the I runo Prison W. R. I. In manager the min was on to singure and one, any one was errors in some in the color of the deliverance of the color of t were morths ver, as also the superiority thus post essed by the former over the latter on the mirch and to lattl

It all did to diknowsh hand to hand fi, hing soldom took place, and also at did the odds are in far of the mangalar Germ in the lat k Iranchae in recorded his commend hadin rabbar r thes alt surds the short is a tof the Pro un. Of the extended were first sent to the fron
the older he has been of the fight, a great number over mone of twenty eight to thirty five yours (831) [Appendix IV.

of age, who had tal en part in the campaign of 1860. A contrast is also drawn between the military of ago, who had the repart in the campaign of 1900. A contrast is associative between the minitary qualities of the old triel I breach solding and his countrymen the newly level account. By withouses have manufact the obstance strangels of regular soldiers of the I breach army against their opponents at Gravelotte, Orleans, and Sedan and contrasted therewith the results when recently raised and mexperienced levies, such as constatuted the army of the Loire, found themselves opposed to soldiers mured to bottle

It is observed by correspondents and others on the spot that, when that army of young recauts was defeated at Beaune la Rolande, the great difference between them and trained soldiers was no less

apparent after that reserve

The difference between regular and trained soldiers was no less evident in regard to the defence of Paris against the Germans so also the difference was observable in the fighting qualities of newlyrused layers in the early part of the siege, and of the same nen later on in the defince, after actual experience had, in a manner, transformed them into old soldiers

37 With special reference to India I would report what has already been observed in regard to non-efficiency occurring among troops beyond whit is indicated by more statistics of sickness, mortal-ity and invaliding. The circumstance is well known to officers of experience and has been demon strated in actual war, that young soldiers and those in then earlier years of residence in the country are less able to bear up against the fatigues incidental to long marches and exposure than are the older men and those of longer randence

Not only had the first great cheek been given to the mutiny of 1857 before the young levies afterwards sent out had arrived, but when in the latter part of that year, and in 1858, neally arrived regiments came to operate in concert with those of longer residence, the contrast between them became

very apparent
Take, for ecumple, the 10th Lost, in which I then had the honor to serve I tarrived in India
1842, and laid served continuously in the plains. The 84th was unother of Indian regiment
Both these corps formed part of the held force under the command of Six Edward Lagand, o c s Bodd rose every strong new years of the gent length, often in the day time, and during the heat of April, Mry and early part of June they, on some occasions furly marched the colol sepors down and destroyer them, schaces among them was actually less than it was in some of the more recently arrived regiments that remained in cantournests and the 10th Foot only lost two men by heat-poplicy. during a period of eight months in the field. On the 4th of June, the action of Chitowrah in the Jugdispore jungles took place. The regiments engaged on that occasion included the 6th Poot but offersion furgies and preserved in the composet of a great setter of young lads, the little and 94th, found almost entrely of old soldies, who had been in the country eight, ten, and fourteen years. The coosson is selected for notice, for the reason that it seems to me follustrate the question now in hand

It is to be observed that the troops were employed in the open throughout the entire day, that the sky was clear, a force hot wind blowing, men and officers dressed only in their trousers and shirts, to say wal cent, a nece not write moving, marine oncers dressed only in men requires and that, from time to ince a supportunity officer, all of us taken wals over considers, and then proceeded until getting day, we were gled to repeat the operation. Under such encematences, the received were engaged, deleted, dispered, und pursued to a nictance of notes that two or dress mise from the position they had taken up. The men of the 10th and 54th in fair pursuit overfool; and beyondted the fingulates. After a stort rest matter the shide of text, they naticely lawly below to their restrictions. camp. doubtless elated with success Of the 6th, numbers of their men by on the ground fagged and unable to resume their march. They were placed upon guns tumbrils and such other conveyances as were svalided. I remarked to some of these men dat evens from the Cu sea, over two two years and you can't be a men dat even from the Cu sea, over two two could be a cut to the cut that t "Experiences of an Army Surgeon in India"

For purposes of illustration, I take the published statistics of three periods in relation to which the suntary and other conditions of our troops in India presented a very great contrast with each other. In the three years including 1819, 1816, and 1817, suntainen, though unged by array medical offices, obtained little to eigentum un comparison to what has of the years been accorded to the In the last named year chosen previded severely among them, yet for those three years the ratio of deaths per 1 000 among Butash soldiers was 41 40, of invaliding 25 00, or a total rate of non-

efficiency equal to 66 49 per 1,000
The second period selected includes the three years 1864, 1865, and 1806. It succeeded one of the most virialization outleness of cholen on record. Sanitation brid tallens ogreest a study that it may be considered to have been in fashion for the time being long service was, however still the rule, nor

had the existing line of magnificent troop ships been established

We learn, then, that during this period of three years, the ratio of devths per 1,000 mean stongth was 23.99, of invaliding 19.50 miking a total rate of non-efficiency output to 37.72. Amitter samitary reformers, as they cell thomselves, not in labels in how, were expressed units a flourish that the ratio of non efficiency was about to be reduced to a normal rate of 20 per 1,000 Army medical officers of experience, more guarded in their expressions, knew that after an epidemic usually comes a period of healthings for the simple reason that the more deheate and susceptible have been swept away But at the same time they I new full well that climatorial and other influences affecting the health and life of aliens in India—as Birtish are—remained un iffected

The third period soluted as that including the years 1809, 1870, and 1871. In addition to the fact that measures of sumy hygene had been priceed on thouses to their utimes, large and publish barracks as some sistence insubed, this system of short service included, his distinct vetoes well yet. utilized, transport home had been made easy by means of magnificent ressels already allude I to

In this period, then, we learn that the rate of mortality was 22 3 per mile, of invaliding 46 11, In this period, then, we ferm that the rate of mortality was 2.2 per in up, or invising 40.11, or equal to a fold rate of non-felicency of 68.4 ft ps. 1,000 as squared 68.4 or the period for 1815 ft be result seems to me humbridge. I raturally ask myself. Where comes the cause or causes of this neutralization of all the mervers of hygene that have a visit expense been brought into operation? And can only reply To shoutened periods of severe in India and the construction to the country of young men that thus becomes necessary. That a similar explanation is variable, accepted as concet and noted upon is, I ventue to submit, shown to be the case by the very advocwery.



From the foregoing table it is evident that in all the three corps and in I list Royal Artiflery especially the suchness was gre for among men over three years service

2π l —Vo data or I - From having seen the benefits. I am strongly more sed with the value of hill san tone for

"— room naving—seem to seem to a sum security injure see, it to us valide of in its first into mind do with certain dies ses—i of thely for mind for the or with furned on discusse of the stomach as we lies for III it is goal descense and I can strongly in froot of II job on gooldners and of the regiments first art map from England being stationed entirely in the hills to the fullest extent nos ble

Dr to un Smit Deputy S r-geon General Indian Med en De We afe matten on the subject in conjunction with the late campaign can be g ven by me except from hearsny ps tment Madras

() Yo mg sold a s are ni ways more and to I not up sooner from fatague a d expos o than are old sold e s

(b) Our hill stuton for t cops Wellington s of the g catest value for men weakened by residence untle planes and where there is no signal o discase. Young olders have generally had extremely good health on these I lis (c) Hill stations are valual le as san to a for manifes who have suffered from debil to caused by

residence on the plans or from die and wile e there is hitle organic change but when there is deeded organic die e.e. or is plus from my responser on the la light is I would recommend bill state on to le vive deal fill of hill I we know e.e. so of (consumpt on) plus yell over ello in the other The health of young solders on the hills is go crilly remarkably good and there is no doubt general I calth is preserved by eside co on these hills

D / G bloom, Deputy Se geon

Ao as I cons der n a m l tary sense the large can some error or now ever the large can some error be referred to any undue fat gue or exposure

Any exposu e which took | lace w s to the fie ce Afghan sun during Apr l May and June the res it of l v n. n tents which d d not affe d suffice ent protection. This exposure according to my obser at on affected equally young and old sold ers

There can be no dou that to the benefical ridge of bil stations on badies of Europe in troops and

this should be carable of direct proof from the vital statisties of the army in India

as a monais to engrease we one component men in evit starting et a toe simily in this a. The blud effect of pre one sepace to them is here as militance of the Reds are Valley we swary maked in some of the tag ments compress gibe left. D so Pechware Pold Force. After a faw works serror test 1915 Regiment we is placed for set do not not report from the field—the combit of malar outs free and its concern time. The Red Brigade was subjected to such a Monaise and the combit of the subject of the subje remarks proteins to taking the rest. The own is good in a large that the terminal confined in the for r. The surps became unhealthy and v thin he loft. If s is which had suffered from malarnous fe e at R a 'll Pauli continuated during the e may get to til ris of the sen effectives of the J suppers not of the force 'Ene 148th S has a regiment of the Pas awar garnson utterly boile down after a few days expose e and lad to be removed to India. The Guides Infuntry and late Silbs ding the wonter months had from 10 to 100 men d ly a hospital the r mo tality vas l go and in the op mon of the medical offeer was directly influenced by previ

ous malamal pe soming From an experie ce of some twenty years I have come to the concluse that he stations fall very stort a accomplet ug II the good a should rea outbly expect from them if constituted and admin the edition is healthy screeks at assenting a la exercise to the section of the upting the section of the boys and weally and I am af ad often lary sold as I believe as at pictent consit ted they often exert a dote orating influence on the sold e of the sold e and consiquity that the advantages as health resorts are miel a abeyance. In most of them the amount of milit ry exercise - I do not mean parades and dr ll b t m l tary eve eres in the broad sense in which the Romans unle stood the term -is I Solders at them food on odd for tean elothes wished ten den in him and a clement produced by the I between the complete with them food on odd for tean elothes wished ten den in him and a clement produced by the I between the complete with the complete with the complete with the I between the complete he length to be the complete with the I between the complete he length as he like the tent to the control the I between the complete he length as he like the complete he length as the like the complete he length as the like the complete he length as the like the stations are etained in their pie ent to moins convile cent depôts I belie e they will of ansirer sate cas on extend in that the case to min secure because repose I can be a level to the better the rup none in and man of opinion in odes to develop through yet he seas levell; root is the better plant could be to seal for I i state on eagments req. agreedors on of herblik four service in the plants or a brank root as t case, and young segments frest from L rope either entre or it mays an accommodation e state and a sy looped will be increased. Loover, a change or mugt our tree convilescent common es al ould be ratached to cons at of the class of men at one ent sent to the hills so convoluents to be subjected a star or shealth pe on its to all the multary duties of sold as and the death on which obtains a cills deard corps. In the cluster of the H manages Leen on necessity for Metros ever the of the self asset of the self except on —as expers and those engaged in conserving one tous. The men's cill duties the self and mand their clothes cook garden—the call things be inst ucted in marching and chimbing

Dep ty Suggeon G or S C Offi or Kuram Pield Force

The reg mental med cal officers who recompanied the troops in the field are ge erally of op mon that the young sold ers fell out on the mand a greater proper to a than the older and more maters men. But it estatest so of the schoess and mortal ty of the recomments that I we ben with the column since it cross all the fourtier. Hold no e dence that

the eventy of the climate and the amount of fat gue and proved on which the troops were called upon to endure offected the health of the younger men more injure saly in company on will the old rine out econtray both the admissions into losp tal and the mortality der t e to thee years of age have leen less than among the old men Tie amog tle men truth is that it e d i ate of algermistant is a proved very su table to it a Fu ope n soldiers of all ages hat especially to the jonger men and all efficient conditations e il as moderal agree that the jump men of the reg meets have unproved greatly in phys que since they entered upon this campa gn



I am strongly of opinion that the proper course to adopt is to send every British regiment on first landing in the country to the hills, and to keep it there in climates especially adapted to the European constitution, and only to allow it to come down into the plans when wented. As a matter of economy, it would be far cheeper to Government to employ Native soldiers for all duties in the plans. It might be necessary, for militury reasons, to march the European troops down to the planes to cumps of exercise to manouver with Native troops, and thus could be safely done during the rold season, but as a rule, m my opinion, European soldiers should be always kept at hill stations whenever it is practicable Taking the Luropeun army under the Bombay command for example, I think that the Europeun troops at Belgaum are more favorably situated than at most other stations, and that for the present they might be allowed to remain there—I advocated, when acting as Sanitary Commissioner, that the European troops (two companies) stationed at Satara should be placed on Yewateshwar plateau, and think that this would very much improve their health

The Ghorpuri but teks and officers' houses at Poons are notoriously unhealthy, and when acting as Santiary Commissions, I retermineded the disinforment of this site. The following extract from a raport by Surgeon-Algor Grand, in medical charge 3-7th Fusibus, will also how a regiment lately arrived from longitude suffers from long placed for multiple placeds on an unbealthy burnada on an unbealthy site.

2-7th Tumbers

	Years	Avorage strongth	Average daily sick in hospit d	Per cent of strength.	Avarage daily number of weekly men attend at hall spital orabsent at hall spatarium	Per cent of strength	Average daily total non effective through stokness	Per cont of strength
1874 1875		853 574	53 88 46 23	6 25 8 05	50 00 84 64	5 86 14 74	103 88 130 87	12 11 22 79

Poons is considered one of our healthinst stations, and yet in it a British regiment lately arrived from home brd 20.79 per cont ineffector through sockness. Now, if this regiment had been stationed on the falls as Undoned. Doe of Pend Gunny, the new would lave realmost their stepping, and time constitutions would not have been weak-east by malari. The fighting power of such a regiment must evidently be much reduced by braining that the plants

Then, agun, in the Northern Division, I regard keeping European troops at Baroda Ahmedabad, and Deesa as a very grievous mistake, and am sure it entails very heavy loss on Government. The Sing Messa dis avey freezone managase, un immune a communication of expenditus for a military carbonisent of Mount Aliu en well laton us, and especially as the rathery new no course of coestructees will run a close to its laws. I conside that the European troops should be uniform from Almeribed and Barolo, the clument of which as possiblely named to the Raropean constitution, and that all European troops serving in the Northern Division should be located on the top of Abu

In Rajputana, the statious of Nusseerabad and Neemuch are also unhealthy for Europeans, and, as I have recommended in my unusal report for 1877 as Samtary Commissioner, I should strongly advise that the European troops for this part of India be placed on the Chittor hills

Surgeon Major J H Porter late is med cal charge of Field Hosp tal 1st Dwisson Penhawar Valley

(1st) I have no statistics to bring forward, but from general observation in three empargus I consider young soldiers unsuited for empargning. They are more subject to disease than old soldiers, have not the power as it were of lesisting disease, nor the knowledge at first of how to look after themselves

They are unable to bear long fatague and exposure. Very old soldiers are, as a rule, physically unfit for campaigning I consider soldiers of from six to ten or fifteen years' service the best for active service in field campugning

against set the in seas companying and the property of bealth. Stations like Penhawar are most approve to bealth, will soldiers who have been quarteest in them for each jungle of time are quite untitled in taking the field. There height becomes much impured, and they us helds to attack of fever and other discuss from exposure. Then physical powers are reduced [57:1]. The video full distances as sentant as depends upon the cause elected.

When in medical charge of Nami Til Depôt, 1862 and 1863, I found the following diseases derived no benefit from the chrunge —themritism, secondary and tertary spinits, with greater pants and discase of the bones, pulmourly due as, especially advanced phthase, advanced heptite discress, and however complaints. These cases became worse, or derived no benefit whitevery, died, or were unvilled to Daghard Dehnity titer fere, deliverte young soldners, mild cases of secondary spinits, and other skin diseases derived great benefit

Loung soldiers lately arened in India would have their health preserved by being sent to a hill station, by which they would gradually become recustomed to the climate of the country

It is the young and recent arrivals who appear to suffer most by being stationed in the plains

Surgeon Wayer C Mart a Army Medical Department, 13th Hussans

1st -The books of the base and field hospitals of Kurum Valley Torce, of which I was in charge, would show admissions at various ages and periods of service I have no means of reference

The men of the 28th Regument chiefly filled the hospital from November to March, and were young

The 72nd Regiment were older, and more attention was paid to men's clothing (flanuels, &c). but heades this they were also more physically fit to endure fatigue and bardship than the other

2nI—I am of opinion that regiments on arrival in India should be at once sent to the hills and 22.1 — I am of opinion into regiments on wriven in anne soome new owns can one must me, they therefor of the last two years, nord their. I thing I the hills possess any immunity free openent decases, but this it gives the young colden, of when regiments nearly wrived are mainly composed, time to develop, that the climate assumitates closely to this of the place from where they came, that good food, regular habits assembling good any may mature and develop and set up half grown immature lads, whereas by sending newly urrived regiments to the plains they at once begin to deterior ite

Purther, it must be borne in mind that enteric, which is the seasoning fever of the young soldier m India, is always most fittal during the first two years of residence, and that liability to attack

dimmissies after that period

The fact of this class of disease always appearing at certain hill stations proves nothing, except principle to the crise of the outsides early a supering to extra in sections prove norming cargo principle did selections (Subtlin, for matiner, merely proce by disclotion). Any loid iston in the immediate neighbourhood, or dominated by a higher range, make he unbrillip. A station of less deviation, vitage provided it was the highest of the range, nould be preferred out for healther. The value of hall stations as convaluement sentima in casts of achiety from long residence in the

plains, or anomin after favor, &c , &c , it is needless to dilute on The malunous nature of the climate of the vulous valleys on the frontier, :--, Peshawar, Lohat, to come any other three successions of the comment of the virtue of the comment o

To muntain health and efficiency, I have no doubt that as many British troops as consistent with multiary necessities cut he should always he statemed in the hills, and that employment other than drills and parades should be provided, erg., road-mailing various trades or handwardts. In the plans it is notorious that ervality and artallery are always more healthy than infuntry, solely because they

have more work less idle time

For men who have been prostrated by disease, or merely debutated from the intense heat, there onn he no doubt of the value of the hills, but the young soldier, who is to all appearance in fur health, I would keep there as much as ressule till he has tame to develop and become a man

Are you in favor of substituting a system of station or garrison hospitals for the present system of regimental hospitals?

S ogeon General J. Rev. Innes British Med cal. Department, and I recipal Me head Officer British Forces n. I. la Surgess General J P Bestson arm 1sd en Medical Department

I am not On the contrary, I am fixedly opposed to any propose tion which involves the abolition of the regimental hospital unit, either 18 legrads the personnel or a steriel I believe the absolutely un modulible consequence would be to render a regiment inclinient if suddenly ordered to tale the field-; very common occurrence in this

country, and one which it would be most injudicious to regard as a

light matter or improbable contingency

Yes

A station or garrison disposerry would, in an economical point of view, be probably a wise inno votion, and would be unretended with any serious incommensace to long as each regimental her ital let tup at all times its field equipment, from which remedies required in severe urgent cases could be promptly assued

In such general dispensing all ordinary prescriptions would be compounded under the direct supervision of a medical subordinate of the 'politicaly class, and when made up, would be carried to the height lby the doole-berrers in small covered wagon borne on a brancho pule supplied with p dlock and two keys,—one to be kept by the spotkersay, and the other at the regressial begind by

the hospital assistant

Each regimental hospital would furnish its quote of the establishment required for the general dispensity and on the corps being suddenly ordered off, seed point would at once report the ref-nented mistration, which would then be as complete and efficient is if it had been manifaced dis-tinct and separate while in cantenments. Base, field, and intermediate hospitals are all necessary during war, but they never can absolutely superside the necessity for a regunental medical staff, and essuedly of all countries, India is the one in which such in experiment ought not to be attempted remeany of the community, many is the one in mann, such an experiment seguin set to no relation; that the other depend experises, however of should it times a without it times without the forecest I about profess not to attempt to sketch. The experiment of most of the forest who for I not of the Army Organization Communication out equal with givet or confidence than I rem in section of the sport me negative for section of the sport me negative for the sport me required to general heights had forming my opinion from experiment may be attention of the profession of the sport me required to t soldier

I can however quite understand their distaste of them being for less in garrison, because there of cour e thur own officers, I propers and Nation, would visit them, preceded as they notif in ite regimental hospital, ascertain their complaints, and see to their temp promptly remedied if possible

Let accumulating a mamore is ledy of such in one building so uss to me an absolutely retroyable mercure—the more stronger during the pre-alence of the scattment connected with the segregation of sound men into the smallest possible bodies in bull company, or even, if some enthusiasts had it a

power section burnels I further believe that the introduction of the system will be the grave of instituted efficiency on the part of modest officers of the Indus reserve, which I housely counsel for have been their most distinguishing characteristic induction. But this depth gauge in general, in his report of some of the pages faither method officers of the Kardhari food, given loose can to his admiration of their extractionsy self-valuage and remarkable readmiss under ultificializes, and as now allow the form of old steading in the server. The reason stumply is that, in sepandic independent charges, they are early theorem goes there our resources, and soon have del break on myong shoulders. Anything extended to impais need quinties will be durily purchased truy conf, and will be surely graved after when the machinel has been exceptainted. The very notifies of the post expressing the effect of destroying "a bold peasantly, a country's prints," are literally applicable here

Surgeon General C A Gordon Praccipal Medical Officer, British Forces, Madras I am not only not in favor of substituting a system of station or germon beogetals for the present regimental beognitis, but most distantly and strongly opposed to it, my opposition being the result of lengthsted personal experience in perce and m wm in Inda, Africa, and France, of military hespitals in China daung the expedition to this country, as also in other places, added to much study and observation regarding and of the system is followed in arouns armies, I having

published? eccounts of the system of hospital administration in clear different smites. Empreyer and American, besides sentening into fetals with regard to the working of our own at home, in this country, in New Zealand, and elsewhere? I trust this the Commission will here with these egoloxical particulars, they being green soldy for the purpose of showing that body that my worse with regard to army hospital organization are based upon real and vicinity of the purpose of showing that body that my worse with regard to the present question as it affects infair the unnexice B to this document contains an expression of my views submitted litely to the forecament of Makins with regard to the general subject, also, as I trust, to ad the Commission, I appeal (2) an article containing that were so the Views submitted litely to the forecament of Makins with regard to the general subject of regimental excess general hospitals I believe that the present desires Magazine and further (D) a trust-tion of an article containing the views of the Trench Genzes de Santé on the subject of regimental cross general hospitals I believe that the present desires to restroduce onto our time, a general system of hospitals is a mistake, based upon conditions which, even were they approved in other Loropean armies, which they are so, in our to well adapted to that O Britain as the duct a gaten, regimental and general, which, until quite lately, was in full and successful operation. As with regard to the subject of young scholars I referred to yet history so in reference to the present it, is, I thust, pro-flable similarly to trace the early development of the institution. I recordingly note that in 1760 that his characteristic properties of the present it, is, I thust, pro-flable similarly to trace the early development of the institution. I recordingly note that in 1760 that his characteristic properties of the present of the present is a properties of the first that the grant properties of the present of the present of the present of the

It general terms I remark that no real necess by has indirect shown itself for rentheducing the general mistom of station or general hospitals, that the deal system, a rundly, regimental and general, has bredictive met all requirements of the service, except on certain occasions, whan they were stated, and in all isspects left, through crossments over which army methed officers had no contact, with manifection personal via material, in fact without sufficient means to only of performing their proper functions, but of centing save in name. The formation of station houstals to the superassion of regimental lass hitherto, as I trust is sufficiently shown by the school of the grade contained in the unscense vicady inferred to, proved themselves to be unsuited during posco, and both insufficient and faulty with regnd to war. Their defects in European and American wars have been more or less completely covered by means of Red Cross and other asseminors, but in India it is undesamble.

to trust to such extraneous help

I believe that the objections against the system enumerated in principal 9 of anisature B are sufficient to prevent the adoption in India of station hospitals, at least in the interests of the sick solins and of the service I hope they are Turkles objections also present themselves in cancium C, but with regard to any reconstantiation they pesses, if fully considered, I say and our Lius, I think, of great importance to be in month to fact that when in 1857 regiments were sufficiently and unexpectedly called upon to operate against the reliet, to undextake long marches and to engine in some battles, their excell motion elabilishments proved in every respect sufficient for the occasion. If it stations hospitals then whose existed, it does not occur to me by which possible means mobile establishments, for a seal in cl., crild have been perpert laterally without means mobile establishments, for for action incl., crild have been perpert laterally without means mobile there it there is the possible places to replace regiments estimated by general, and at the same time as the later fixed in former years in this country, as they did not the same time as the later fixed in former years in this country, as they did not

Lestons in Hyg one and Surgery from the France Prussian War, also in the British and Loreign Medico Chrungwood Rev em † Aimy Hygene

Appendix IV]

Flanders and the Peronsula, as they were found seriously at fault during the Franco Priessian war. kinners and the recomment, as they were come economy at most owning the France Friends wit, so they may, and will be, wherever a logic? I write this plantly in the logic that the Commission may be induced most economy to consider my arguments before they determine to aboush what history and experience have this demonstrated to be the most perfect and serviceable of all establishments connected with the medical department of the army

ANNUAURU B

No 54 O, dated 24th July 1876

From—Street General C A Gordon, Md, Ce, Honorry Physician to Her Mujesty, Principal Medical Officer, British Porces, Madins Presidency,

To-The Quarter Master General, Vadras Presidency

In recordance with order of Government, No 1907, dated 19th April 1976, I have the honor to submit, for the information of the Communder in Chief, the following documents called for by the Secretary to the Government of India, dated Fort William, 7th April 1876, No 395, as:—

1-1 statement of the employment of each medical officer of the British service serving in

the Madras presidency on the 1st of April 1876 *

II -A return showing the places where the sick of two or more corps are treated in the same hospital *

III —A strument of the places in the Madris presidency where it would be possible, without adding to custing buildings, to treat the whole of the sick of British troops at the same station in one hopital.[†]

The object aimed at is the possibility of reducing to some extent the present establishment of medical officers of the British service serving in India by the consolidation of regimental hospitals Table A indicates that of 78 army medical officers borne upon the establishment of this presidency, Taken I hardress one general level, there on each levels mind four ear order to jour, or performing general dutter. With those exceptions, every modered office has his specialic dutters to perform. Thus, too, in a time of profound persec and freedom from epidemic. Not is these may margen white relet for such contingencies is at his right to be proposed for under the conditions by which British troops except; India.

In former years, in order to provide for ensualties and meet emergencies, four medical off cers were borne upon the strength of each remment in India. Now there are only three, while the margin

we'd some upon the storings to a continuous or many former upon the storing the continuous of the storing of the storing the storing of the storing the storing of the stor hospitals of the French army on home service, to every 100 to 150 sick one surgeon major and three argroun would be necessary, in addition to substitute establishment, to every on the ordinary duly dates, still leving no magni for e-vallees. The conditions of meles of mental the continuous makes my crownstances, require the presence with it of two meless glines over and about the melessary of the melessary o unter my (recommence), require one presente, man 10 or was memori officers over ann 2000 or morphile childrenne, tal evel durange their hot and trang persons of the perit, for the performance of enhancy duties connected with frundles, bursels, presences, &c., so that it my estimates correct,—and trust nevel memorial consultations of consolutation for consolutation and require an item respects there exist grave objectives and trust respects there exist grave objectives. tions to such a measure

But it seems to me in east matter so to airinge that the sick of Native corps should for purposes of medical treatment and supervision be attached to British regiments, the medical officers purpose on faithent includence and supersists of executive to finite in Figure 3, we memory memory of the latter taking profession at crue of them in addition to their ordinary duties. In Africa and the West Indies, media, dollars, or of the British army thus the charge of Natice Groups in Cajona, and reach, it is did so of Marlys in Chart their attended Charte followers. In India I myself have had charge of copies. Very little coldition would be necessary on this account to the custing led thug, of report very inthe addition would be necessary on this account to the existing of ribbehand of executive efficies of the department, none that it the beamsefurities, either consider able reductions the where might instructly follow. On other service the intention is that all portions of a multirus free should be under on medical as well as multiry administration. What is always the under such cremationers is equally so in embourants, and officers of the may moderal department haves whole creek in serviceace to troop, section returnily, these to have need supermittendum. As matters are at parent, the system followed as unomabine and unnecessarily expenses to

the State

6 The question of station bospitals recovered mental has been so mixed up with that of organized that it acome necessers to point out the fact that ation of the arra medical department generally, that it seems necessary to point out the fact that no necessary come tion exists between the two advances has shown that a station hospital may be called by regument inselected offices under the late regime, and that a regimental hospital may civil it by the right, and that a regimental hospital may first it by the right called by non regimental medical officers.

7. With direct reference to the question immediately in hand, the administrative medical officers.

under mr sep meiodiane knoug in neordines with my rouge is soluted their respective cricks, I is a live view of all development, of states in regulate in their respective cricks, I be a live view of the representation of states in regulation in their respective cricks, I is Then here typicane self-lower, in

() Som reduction in the number of medical officers, but, it is added, this must be effected with ROLL ON (1) Ar hadanas the number of medical subordinates, also requiring can

() A not not a me rracte

to O cost b ic

(839) Appendix IV

- (f) One purveyor's establishment g) A small reduction in Native servants
- (h) A large field for practice

- (i) A possible reduction of clerical work

 9 The following disadvantages have been recorded against the proposed scheme, our (a) No possible benefit to the sick soldier can unse from it, whatever it may be to Government.
- as in a saving of money (b) In some of the larger stations, as for example Secondembed, the scheme could not be carried out in consequence of the great distance between the several barracks
- (c) The distance at which medical officers would be from their patients, unless quarters were
- created specially for them (d) If quarters are so erected, then the distance at which medical officers will be from messes—a
- very material point in India particularly during the hot and ramy seasons
 (c) In tames of source suckness and epidemies, delay and injury therefrom, as well as from exposure of patients to heat or run would arise from conveying men to the distance at which station has itals must necessarily be situated from barracks at least
- (f) If patients laboring under choice or heat apoplexy were tel en temporarily to the receiving-room near their burnels, in order to meet the requirements of their case all the mens of treatment and care that are usually obtainable only in a negularly equipped hospital would be required there— If they are forthcoming, then such an establishment would be use facto consequence as the state of the state of the state of the state of the state of the state of the state of the state of the state of that the responsible authorities would permit the continuance of an incomplete establishment
- (a) The personnel of station hospital being stationary, as also the manner of its administration, provision and arrangements for the requirements of moving body, as an army in the field, would speedily become non existent
- (b) On the score of expense has an actual comparison been made between that of regimental hospitals in India as they formerly existed and station hospitals as they are proposed to be? If so and the superior cheapness of the latter over the former be the result aimed at, that conclusion is different from what has appeared both in Britain and in France But un formerly not only did the hospital stoppages from such soldiers cover the expenses The normally indeed to be included to the second of the regiment's medical officers. In I make the restoration of regimental instead of general hospitals has been, and still a advected on the ground that note could be treated in them with less exposes to the State thru in the larger and more complicated establishments. Moreover, it is well known to medical officers of the Butish army, who have associated with those of the French that, while ever since the date of the Crimean war, the movement in Lingland has been pressing on to usum late the system of military hospitals to that of the Preach the medical officers of the latter has a been steadily endeavouring to replace their a unknows system of general hospitals for the more convenient regimental hospital after the English model of that day,
- (i) Another objection to station hospitals in this country is, that sick soldiers are removed from their friends and regimental associates at the very time that intercourse with those friends and associates is most needed and valued. It is indeed custominy to refer to the American and associated is note necession and various. It is noticed constouring to react to the source of the second ways and so say without and general desputals were no that recussion alone employed. But what has been the result of the experience so ground? General Sherman in "The Military Lessons of the War." of serves that "the great majority should be treated on the spot by the regimental surgoon under the eye of the colonel, and as few as possible sent to the druston bospital. They receive better care with their own regiment than with strangers, and, as a rule, their cue is more certain."
- The plea that station hospitals would afford a larger field for practice than is at present given by existing establishments is more opposed thus real. They could indeed only do so if more cases of sciences or natures than occur made the regimental system, were to be dimitted into them, and on such a contagony it is to be hoped that there is no leason to count. It is at the piesent time of the country customary in all military stations that army medical officers meet in consultation whenever an obscure or important case is under treatment and assist each other at the performance of operations. They would do no more than this in a station bospital while, on the other hand the residuess to act upon emergencies by which regimental surgeons of experience have heretofore been distinguished among their civil brethien, would in a great part disappear by the circumstances of a number of medical officers being continually employed in the performance of their duties under one roof. In fact, the feeling of personal responsibility among them would to a great measure be destroyed by such an arrangement
- The reduction in personnel indicated as among the supposed advantages that would result In a state of after a shieuegh not harded at describe a simposed varianges that wount result in a state of after a shieuegh not harded at, describe after a shieuegh not harded at, describe after a shieuegh not harded at the possible without difficulty to make provision of this as of every other inture for bodies of troops in motion, also to despited and from one states to nonshie where, for the time henge it may happen to be needed as on the occurrence of an epidemic, or necessed seckness from any curse. Under the proposed system no each possibility will exist, if the colatebons, which serve as the bases of the messure, be carried out. If no such reductions take place, then matters will remain as they now are, mentally, no critice out. In so that, concentrate many places, and mental surfaces are separated from each other, each principle of the places the spirit described in the control of regimental authorities, in the cree of status to hospitals they would be congregated as one residualisationed, for the most part with little or nothing the places are control of the co
- together any would be configured as the result in the points have so forcely been brought forward by the Principle of the result in addition to these objections other points have so forcely been brought forward by the Principle Marchael Officer in the Hydicaland Circle, that his remarks are reproduced. He observes
- "the regeneral system a pershartly adapted for Icd a if the welfare of the each and the proper leading after the men women and children in burnels to the class consideration. If that he a secondary consideration let large station hospitals administed by mode all efforts, who are foots strangers to their charge, he samignated. The reguestal

Appendix IV] (840)

surgeon as he made to be on whom densited the responsibility of leaking after the validate of he charge the numbers of questions and the freshment of the soft, was a most import at the atoms v. and the regiment by water was a those import a fine atoms v. and the regiment by water was a three village and the proposal accordance to all condenses with a days, and the life in regiment is extended and other with the state of the regiment is extended and other with the state of the regiment is extended and other with the state of the regiment is extended and the state of the s

13. Paragraph 0 of a letter from the late Finningh Medeol Officer, British Toices in India, after the late of the letter already quoted from the Senetry to the Government of India, Militry Department, continue a streament, the importune of which demands credit consider into According to that paragraph, the present difficulty in this country is the establishment of skiton terior regimental insoptials is the first that the regimental system has been so long and so firmly exhibited in India Such is unquestionably the eves, and margined as conditions styre from producing causes, the question instartly presents itself, whit our dieses to whole is attinizable the consumance that regimental heritals in this country in e 'so long and so famy established?'?

14 In triving beet, this surface, attaining the consensation that regiments heritalism.

14 In trenge bock this mitter, it amounts to a platitude to observe it it did multiny establishments as they costs have grown up with speecal selecance to the congraments of multina service. Multisty hospitals constitute an important atom in those establishments. They have been gradually developed in India, as elsewhere, as conditions ductated. Hithert they have failled, purhaps before them in any other country, then purposes in times of we raid accesses of endomines, and now duming a

period of peace it is proposed to alica all this. Most scriously do I inculcate crution ere so great a change be made, and for the icasons which I proceed to iccord

change be made, and to, use leavour when a proceed to accord

15. In one important respect the encumstances of warfare no different in India from what they
are in Europe of America. Consequently transpoints that are applicable in either of the latter are
usualted to conductors in this country. These, that for the most put in war as in process, a may,
whether for or framely, obtains protection and all things else necessary for his conflort from the moment
he alials and on its wounded. Here pedging from the exposureme of the prist, a solitor wounded in
battle has but to expect death should be full into the hands of the enemy. Among Western returns
then the wounded may, as a tide, be after, chandened, and under the force of agreements and concerns
as general understanding casts on the subject, in their India salidone in truggements must, under
all cereumstances, event within a force itself to provide for its such and we middle, and if necessary, to
carry them along with it in a ventury, as maded the proposed drang the muttin earn gay with it in a ventury, as maded the proposed drang the muttin earn gay.

10. It is fir to assume that, wherever in the county's strone longith my be established, communing officers of regiments will look after the interests and well long of such of their own men my be under testiment in them. Others communing the companes to which they belong will may read ably tale an interest in and use them from time to time, and not commissioned officers will also have consumited to communious with flew. All these will include a certain number of variet to them, and the variet is which they have been presented to the surface of the city on week, as my the detailed in necessfare with taken or garmen notion. If the such of handwale agencies are distincted promiseously among the wards, all this will involve a terminal many traits to each puttant will become nonro or less a thoroughline. Entents other than those who are the objects of the day of the community of the

In limit we derives by very director limit pose of the 1 render many in its war project content of the 17 Lepterment is a first with a video of a dation or general hospital is nively on so all suited for requirements in the set of preceding is presented by the set of the set

15. If thus some evident that in each times statem hospitals can only be available to the cancel, an orderly practice, be and stituted for the lattle. In former on Iriar, and man praticularly during the matter correction, statement beguld desire, realth formed, whe seem not set those, by the emple expedient of delending portions of regimental establishments, remning these proteins a detached, the restrictions of the control of course and the control of course and the control of course and the control of the control of course and the course and the control

That such establishments worked efficiently and well, and that no difficulty cross in connection with them, are circumstances that were fully acknowledged at the time

19 Past experience in this country has shown that regiments and batteries being hable to be saidenly citied up in to this the field, they should be at all times usedy and fully compared, makindly as in other respects, for such an emergency. During operation agreed such an emergency properties agreed an enemy, expensive via temporal that regiments and buddens are constructly livible to act independently of each other, smeathers or on to be separated from the force of which at starting they constituted a part. Moreover, that field forces have occasionally to be extemporized from regiments or detachments of regiments withdrawn from their own body and suddenly united for the purpose Thus, to ensure efficiency in hospital establish ments under such encumstances, they must remain upon a footing to admit of completely independent ances under sear circumstance, use just cleaning upon a required for consolidation wherever troops act together in a large loofy. These condutions were efficiently melt by regimental establishments as they cristed during the operations connected with the Indian mutury. It does not appear events have they can exist if the infloduction of station heapit's real stationary establishments to the abolition of regimental is persevered in It is well, however, to bear prominently in mind the fact that the conditions above related differ considerably in their nature from the operations followed in late wars in the West

20 But it is observed regumental establishments are cumbrous on service, and impede military operations. Such under bedly is the new Yet so long as it is an object to give succour to the suck and wounded, ample means must be minimized for the pumpes. In such a cess ti mitters not as its minimization of the pumpes. gards their extent and cumbrousness whether they are connected with individual regiments or attached to brigades and divisions on the principle of the ambulance system. In the former so long as circumstruces are favorable each regumental establishment follows the regiment to which it belongs. In action those of the several regiments of a brighde or division unite together so as for the time being to constitute a field hospital, again to separate when the battle is over . On the line of manch before an enemy, the hospital establishments are placed together and occupy a definite position in the general column, yet rendy to not separately or unite as emergency may require. In this way, while in reality tal ing up no more space nor causing any greater supediment to military operations than those organized upon the non-regimental system would do, they are suitable to all purposes of Indian wirfine,

which the latter are not

The question of station hospitals in heu of regimental is in reality not new in relation to British troops but it is important to note the eironmstance that these hospitals have hitherto fuled wherever and whenever adopted So far back as 1742, while Inglish troops note engaged in Flunders, general and station hospitals had to be abandoned in consequence of the evils resulting from them, and regimental hospitals instituted in place of them. During the Pennisulai war general hospitals, established soon after its occurience, were abolished and regimental instituted as far as it was practieable to do so. In England in 1826 regulations were drawn up for establishing station hospitals at the several home garrisons but the system having proved to be objectionable the plun was speedily afterwards abundance. In the Cumea the conditions of a besieging force were in all respects different from those of un army engaged on field service in India. In the former it was itself all but stationary requiring only establishment of a similar nature yet the reports officially made in regard to the fixed hospitals connected therewith are such as to supply arguments adverse to rather than in favor of their general introduction At the present time unlitary and other percentials declare or not the system of station hospitals in the United Kingdom. They are held to work unsatisfactorily, and me so objected to alke by schiens, medical offices, commanding and general offices. In Frunce the time numer in which army medical officers express then objection against such as exist in that country is that in them ' the necessities of the sick me sacrificed to the requirements of the administration

22 I am an ate that in writing thus strongly on the subject of station hospitals, I express views adverse to those entertained by various high officials and authorities. Such as I do express have been gathered from personal experience under considerable variety of encumstances and from a somewhat lengthened study of multiary medical literature on the subject. In my published works during the past fourteen years, I have from time to time expressed many of the views now embodied in this does ment, red now with no presonal object to attum, with the prospect of the close of my other degree being not far distruit, I would, in the interests of the army recent in strong constitution against the property of destroying custaing regiments! Monther deshibishments in India by the substitution of station hospitals. The change, if persisted in must eventuate in failure, if not also in disaster

ANNUXURU C

Army hospital establishments during war

In briefly reviewing the rise and progress of organizations for the care of and attendance upon sick and wounded of aimies, it is only necessary, for the purposes of the present intule, to consider those of comparatively recent times, and such as no now in operation. The ambu-There or temporary hospital is an establishment easted and adapted solely for the purposes of war, and is khoued to have been first employed in France, namely, under the administration of Sully and the force before Rome in 1591. The first sectoric record of such an organization was in 1620, and we learn that fon your afterwards, namely in 1630, ambulances were improved in various ways, also that, under Cudmal Richehen regular establishments were appointed for working them. That both ambulances and then personnel however were upon in meansiderable scale, and not altogether restricted to a purely surgical staff, is evident from the composition of the latter, consisting, as it dul for the Grand Aimy, of six Jesmis, a cook, five aids, a surgeon, and an apothecury The transport comprised Grand Anny, of an desails, a cook, here usig, a surgeon, and all optimizery. The O'unpower computer two crites of two wheels are also per day new allowed as food far a sooned and putuals, and as a important part of the dubies of the Jesuits, we learn that they went "dauged with the consenses of the sek". Dissiparing the segon of Loues AIV the unbehaves, his cill other establishments of the Prench array, underweat amount impovements under the administration of Collect, which are another amount of the compliance of the each of undividual costs during season and in another days for the compliance of the each of undividual costs during season and in the contract of the compliance of the each of undividual costs during season and the compliance of the each of undividual costs during season and the contract of the compliance of the each of undividual costs during season and the contract of the compliance of the each of undividual costs during the contract of the compliance of the each of undividual costs during the cost of the c quarters, they being altogether distanct from the large military or general hospitals then existing

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Unformatch, the letter in-futions, effers, remote of conditions in favor, were long information of a term selection of the large harmonic of the large harmonic or and development have exceed to a door a development may be under the care of uncertainty in a me and eccle ratus. They were durinding simple with mediument was continuous, and applicately, the fact of a pression which so still, the function of the estimation symbol with mediument was pressible in the production of the estimation of the estimated value of the production of the estimated value of the following the selection of the estimated value of the selection of the estimated value of the selection of the estimated value of the selection of the estimated value of the selection of the estimated value of the es

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m numbers turn they not are long a surgeon and surgeon's main.

In 1979, in the field, the brighed was it remisled value in model, and the brighed arrangement, and the medical offices, number directly all the fields a vestimate surgeons, with the delation of one bagide surgeon-in-chird and fire largest acceptance of the largest surgeon-in-chird and fire largest and the process of the largest o

The sear of data into lest if appending on model of error to hap, he poles are also dis a provided bomble, feedlers I is also amount of the search of the se

When the sum with the scale queriese it Greening every regiment and corps had its own tribility in the billing the mild drives under the settl mayor on general charge, the scale is the libragite and drives under the settl mayor on general charge, the scale is the force seen in an anni the regimental beginning to set the state of the settlement, was always opened driving the proposal of the settlement of them. At this time, the scale of the settlement is the size of them. At this time, the scale of the settlement is the size of them. At this time, the scale of the settlement is the size of them. At this time, the scale of the settlement is the size of them. At this time, the scale of the settlement is the size of the settlement of the scale of the settlement is the size of the settlement is the size of the settlement is the size of the settlement of the settlement of the settlement is the size of the size

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effect com de accompa y giben la gennumles Bandsman vere il zed as stretcher beare s a d'b llo k e ta pre sel utot e serve Tempo lo pio ve e et blistel n fimilionse tlo ounded pacet upon tel ng studio la sta e fens il planty of blanches Attendance and

It may now a prime with a state of the state 1 °6 un el bo ate col of eguint ons for the lattir desciption of estab siment was published. After a breftra lowever the system as ab adoned the gene all hosp this educed to a very few and for many ye s the reg mental ene pre-em ne t Ao more perfect sy tem than tlat of the regimental hospital at mes of peace was ever est blisle! whether the B tish o any oth ramy. The expense of adm n trut on was belutely l and not only that but after the charges near red on account of food med one wear and tear of loss tals and their equipment had been defrated a sufficient sum rema ed from the stoppages cha ged ge ast soldes lie ader treatment sufficent ctually to remr of 1700 the stoppings on age; up as some s 1 a not rectained a some as cannot be ment by any a do by C on ament to the cgm midd suppos and as stand suppos. Il at defects or stell mesone reports it is comp. If y feet system is quite the until the countries s in the recollection of the olders in the recognition of olders in the recognition of the olders and close to the recognition of the olders and close to the report ments was less close and st cty defined than I might und cight to have been. Little by this improvements in a lithese reaperst to two layers will 1888 when the line but I Alexander p cell those reations up on

In a linese respects once, passe and 1999 First non-ing six Park states pick to see relations upon a more act discharge foot gift to ever they had been been and slast than, we show have been unor-pull findings of less first of Sr Jenus MoG gor every ends to make and to muse the qualifications of med c lofficers in the army. He this exp escale his medit upon this post in-

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Accordingly Government to nd it necessary to one case the pay and hilf pay of the medical officers of the army and to lold out other inducements for a supe o class of men to enter as such ources on use ampy man or some our order management is not a super o cases of men to enter as such T ey dd so n gre in mbe s A egu eur culum of sindy was lad down oorling to wil ch n tending crud dates h d to persue the ricle course and ulthoug te e still existed bods to be elfa dd tle dep rin ent was pop ler at the sobools and S James 1 st as a calle! had upon til equen ly the names of from one to two unded from nich a selection cold be made. Bt n the long mitery loft peace whill to be ed to haspital establishment like libitle dep time to of the army e e neglected and so educ d n re peet o ma risl and means of mob y th t whe n 15o4 the out beal of the Crm an took place such e tab sh nexts as existed we e not only usuffi Not the on bealf of the Com am took place and each shorts as exasted we shot only neading cent for my one t. b t e on not respects non-label. On the on one down toog shading ters the my ment leathly ments consisted of a muse can pag; nu cer for e oh and no arrise the latter having to be obtated money those found staying about the cent like the majors of one by limit. I classified but their registras in his there were manufally for the my long condition in which the time dermais e. A see both one proops consists for early a found led progression of the my long condition in which the time dermais e. A see both one proops another to examine the cattering the most ledge or discovered by humant it some time. On it can be and there were the satisfies for iring do or discovered by humant it some time. On it can be and the region ment as the state of each cost on me of my red to the open my reverse one mappells of failff give puts to but the family examined the state of the tie reno al At Seuta the ge eral hosp tals were o e ronded the mat us es touched each oth r e crysting was drivy vermins med I gebuc et supplied the plee of chamble ten a and the applicates to the I dd ngs were posonous with fill. M Ba dons recoids the state of the Flenc estab shments on the ame occas on -

His and bear only be observed options of some governor of the source of

As with our own establishmen's the Then hilal not plotted by the experience of the past. During ther visin Algeria from 1830 on and come at filters at ealed the working of their amb necesystem that fire record g to Cont Beda being a flers as a sthe system as 1830 so this in 1854 and with the same as 16—disastrous filtre

nio tunntely as subseque t e e ts n conne tion with the army hospital organization have proved I entrope sons was ted the Comer to a sequentiance with regimental establishments as simply a I by those op one site such in there has been from d by obsections with regid to the large establishments in Los don. No their ne of the cood to most of the C mes vir n cell y such as to sho up in their needs only in the theory of the cood to most of the C mes vir n cell y such as to sho up in their needs of the cood to most of the cood to mo ently ceth ym po session of leas with regula to the orang of giment I hospitas times of pe ee Th s on t e one hand the tendency as to press upon the a my institutions unsu ted for mobility and on the other to a ppress those that we eso

In 1850 a nev cole of Army Medel Regulations was promulgated. In respect to establish ments to a tive sew continuous ments for a tive sew continuous time of the commend to not Vir. Alex add afternades D rector General as acted upon namely that each battal on br gade and days on should be complete in tself. The scale arounding to which medical officers for corp. dan & had been sent to the Crimea was also taken as a stand al, the medications made in it temp few and unimpartant, or ,—

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It is always at first glower that these numbers are ent of proportion to each other, that in first missional had department and reserve, scalable-dimens have not been red out off in 1,988 such and would not order to mail up 2,000, the proportion for which, seconding to all calculations at its messays to make proportions for preserve for the color, see each grow the mission is not mission, then indicated in the color of the color o

The syst m har, I at down was never tested in feitual war. In 1860 C1 the expeditionary force proceeded to Claim. On that occasions a large revers, as well as depth establishments, was farmed at II a, b, ag. Roude the hospital from high properties are unfirstly and all increasing remaining that II a, b, ag. Roude the hospital from non-feeture with a grant of the depth of non-feeture with a grant and the synthetic remaining the state force on within a product of the more hospital at 2 from 18 and the contraction of the more manner, and the synthetic remaining the synthetic remaining the synthetic remaining the synthetic remaining the synthetic remaining the synthetic remaining the work of the synthetic remaining the synthetic remaining the way for the distribution of the more measures which intends of the force in the synthetic remaining the way for the distribution of the synthetic remaining that war, for the synthetic remaining the synthetic remaining that war, for the synthetic remaining the synthetic remaining that war, and the true of the synthetic restrict in the synthetic remaining the s

Is uselized 1. Here are some of those routle. After the listile of following, certum suggest ages to see a r. r. a knowledge and the control of pred in instruments, and the necessary inclinates for the performance of r sections chin and surrice until 1 week hall per 1. The surgical persons of set to form in 1 mil certum and the creamed-tract is via by historium of the war to have higher in a rich degree for reader the compage, must disestence of from the field, where must time they hall been right of the first own high rich and the set removed from the field, where must time they hall been expected to the first own without with or other commentals. On the sense occurs on the secret's now in the first time and the control of the secret of the model of the must be set of the secret of the first time and the control of the control of the conditions to it can take our of the converse materials the condition of the model of the conditions of right of the distribution of the control of the conditions of the hall be interested and the first of the first of the first of the first of the first of the first of the secret of the multiplicate of the high the secret of the first of the high time and the secret of the high time that the high him the light result are middled to the first of the conditions.

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were adopted and worked out by the excentive authorities. It is true that from the first the aubulance system was carried out almost entirely, and here are some of the attendant conditions volunteers were called for , but they being ignorm of military mechanisation, and especially of the art of preserving the health of them men heavy losses in lattle and by verlines were the result. The attendants upon the sick and wounded were rough untrained men from the ranks of regiment the actual arrangements for the wounded in battle, it is on record that at Antietan upwards of fifteen hundred wounded men were lying upon straw in burns and other out-houses besides several thousands in the open air, for whom no shelter or transport could be provided. A little later and improvements were effected in ambulance carriages and other means of removing wounded, such as had never before existed, and which, for conditions such as custed in America, I ave not been equalled and probably never can be excelled. When in 1870 and 1871 the American umbulance worked in Paris, bringing the nounded back from the field of battles fought around that capital, there were none who looked upon that establishment except with admiration But it was only stated for, and indeed only nece say, in time

According to War Office Medical Regulations of 1878, page 72 the following as the establish

ment of medical officers for regiments with an army corps, say, of 30,000 men, are -

21 Infantry buttalions, 1 to each 6 Regiments of cavalry 6 4 Batteries, hoise artillery , 4 foot Royal Excusers 8 Divisional and reserve, 1 to each 9 2 Half companies 9 11 1 Troop poontoon train 1 ٠. Troop telegraph ,, ì 49 Total, with regiments and corps

In addition to, and mrespective of, the above numbers, the following are required for unbulance establishments and reserve regiments

See pages 70 and 71, &c , of Regulations of 1st January 1878

For a division —Administrative I, a second to be appointed 1st line, bearer company 8 2nd line, 2 field hospitals 14 each capable of division into two sections equal to 100 sick creh, or 200 per division total for 3 divisions, 3 administrative and 69 executive medical officers

Administrative staff of army corps -4 idministrative and 1 to be appointed = 5

Cavalry brigade — hearer company, 4 executive medical officers

Corps defails -Administrative 2

1st line, $\frac{1}{2}$ beauer compuny $\frac{4}{3}$, 2nd line, 6 field hospitals $\frac{42}{3}$, total with an army corps in the , $\frac{4}{3}$ administrative and $\frac{12}{3}$ excentive medical officers

Administrative staff 6, 13 field hospitals at base of operations and along line of commumeation 91 Total of all classes for a corps d'armée, 226 medical officers. Add to these the regimental as

above viz, 49, this will make the number 275, with a reserve of say 10 per cent, at least 21 If we compare these numbers with corresponding establishments of Continental armies, we find that, according to the system projected by M LePort, the ambulance establishments in I rance upon their improved scale would include for an army-chips of 30 000 men 101 method officers of all grades

and 21 pharmacions, or a total of 122, in Prussis 03 and 30 respectively, and if to these numbers are and 21 partimetries of a vote or 125, in 1 recent so and or representely, in a to success uncertaint and the I officers unseel, 4 of in each unstance, the totals become I/1 in the I reach and I/2 in Prossa. Thus according to the regulations proposed for the rumy of Great Britan, as they at present stand, considerably more than double the number of medical officers per count of a rate

are rendered necessary than are required in either of the two armies alluded to
But not only is this the case. Regiments being virtually deprived of surgeons I elonging to them, the requirements of all classes of persons connected with them are imperfectly and unsatisfactorily estended to in times of pace, and during the ordinary nature of grainen duty not only in the United Kingdom but throughout our foreign possessors, Jun's alone excepted, the old system of amy medical administration, that which had grown in to need settial conditions not having six to been allogeties distinged in that country. Further thin this, taking the everage number of uny medical officers in the United Kingdom, there are Sugnous general, 150 deputy suggoons general, 150 approximations. surgeons-major, and 226 surgeons or 344 of all ranks, so that to provide medical officers for one corps d'arriée, the entire striff in the United Kingdom would be cleared out at first start, with the exception of a magnificent remnant of 48

According to the manner in which hospital organization is divided at page 73 of the same code, there would be 25 separate hospitals to a corps d'armée, arrespective of the 49 regimental estabhishments already accorded, or in all 74 separate organizations for about 30,000 men that is, a separate organization for every 470 effective men of the entire force, or more than at the rate of one distinct

and separate ranagement per wang of a regiment

By the scale establishment as laid down in the regulations, each of the above 25 hospitals is nearly equal to that of four reguments, on in the mass to 100 regimental hospital establishments, whereas by the estimate given there are only settedly 48 suparite bodies of troops in such a force. Of these, several under previous regulations would require no separate hospital establishment, although there were not under persons agreement and a second many and a second many and a second many and a separate butterns of artillers and companies of engineers. Thus, recording to former usages, namely, the combined regimental and durissmell, all the ambeliance a hospital eshibitances that would be moreovery would be 29, ver. 21 regimental, 6 brightly, if stillery, and I bend-quirties as a reserve In reality the separate hospital for artillery would not be necessary, as such and wounded belonging to tint branch of the service, as also those of the cavalre, a solid to attended to m the hospitals of other regeneric brageded with them, or m fine of the bre, and steel! In reference to these particulars, it is well to observe that his the literal equilibrium of 18.5%, on these of 18.5%, there is a some respect on ambiguity with regard to acts I details, which, hithough only reported an electromagnetical, would messessarily metricar considerably with the working of the section on admit service. In these remarks, however, the litter well as considered in although to the most brown bearing

These regulations appear to have been framed with special reference to commer managing of troops, or operations in the neighbourhood of our home caups and garmons. As we read their details, the questrous present themselves, whence the necessity of such claborate arrangements for the purpose, to what condition of foreign service are they suited, and whence the good of brealing up the old system of regimental arrangement for the purpose of introducing them. The actual equipment rendered necessary under the new organization is considerably larger than what was formerly found sufficient under the combined regimental and general system as had down in the Regulations of 18,32 The description of transport wigons a unsuited for service in either Africa or List. The various estriblishments, congsting of officers and men suddenly thrown together in times of emergency, is thus made up of heterogeneous materials a athout cohesion or mutual interest Another and important objection lies in the first that by the latest regulations abolishing regimental medical officers the codes are destroyed from which establishments could be furnished in the emergency of sadien was if becomes obstryes from "some commences worse or supposed in one state the Medical Department in times of field necessary to have in tree the duties to be performed by the Medical Department in times of peace as well as those in time of writ. In the former the duties are charles such as are connected with by genee of the troops, in may they use fair the most prix, argued In Jury at my they that a fifth or sixth of the whole force returns wounded from a secret-contected brittle, thus dominding suddenly the greatest exertions on the part of the medical officers and the profest administrative trient on the part of the principal officer. In the case of an advancing may, is becomes necessary to male ample provision for such of the sick and wounded as have to be left behind as well as for the probable commenciate of the force proceeding on volve Theorem is eventually as an eventual to the probable commenciate of the force proceeding on volve Thear is a second that the tradead organization be such as to "durist of all these severe liprocess being nowhile people's brilliand. During process, permignentials should be so conducted as that the necket officers conceived shift know who money them are to research with respected, who with hold hospitch, and who with we considered it. It behand a sent to the res. In Continually arms to the distriction marks throughout each command. It could be readily introduced into the British arrive, as indeed it was in former times. The regimental medical officers then knew that their place was their regiment unless specially ordered on other duty. The staff men were equally well aware that their duties were general or in connection with ambiliances. This system is not of, to a considerable extent at least, in force in India There, whether a detachment, regiment, or larger boly of troops a suddenly ordered on active service, it is things end by means of existing arrangements to provide it with all requirements for probable sick and wounded

Do city out the curregements minerted in our 18st number, it is necessary that, in the first phase the nechal establements of requents tended be complete event in test, also that to exhause the middle of the complete event in the complete event which we have a color of an observable exhausts a postume to one. He arrangement is now faultated by, the pusposed introduction of the rank of largetle vagous equivalent to the stiff energy at each of the remaind of the rank of largetle vagous equivalent to the stiff energy at each of a new most time. In turn of var in world be reposed to allow a stiff a new, it is close of a new most time. In turn of var in world be reposed to the feet to eventually and the stiff an

services under such er cumstances

He is somen but difficult to form where after a falle perces conditions to a limit the so called organs after a first of the Street and attains measures in the Installed Amagington it as a fall and approach; the self-bring under such consistences left in grant on and comp los pricts, per a some fall and a first of the self-bring under such consistences left in gent or and comp los pricts; per a some fall and the some fall of the fall or the enterties of the control of the self-bring and the solid or court, and for these effects and the solid or court, and for the self-bring and the solid or the self-bring and the solid or the solid or the self-bring and the solid or the self-bring and the solid or the self-bring and the solid or the self-bring and the solid or the self-bring and the solid or the self-bring and the solid or the self-bring and the solid or the self-bring and the solid or the self-bring and the sel

- intervals along a line of advance? Sy, for example, that each of the twenty five separate hospitais intervise asong a time of our curvers. S y, not example, that exist of the them; the separate bospiths already enumerated is detailed so no provide for these sed and wounded of \(\text{ uniform}\) these softeness of the second second of \(\text{ uniform}\) the second of \(\text{ uniform}\) the second of \(\text{ uniform}\) the second of \(\text{ uniform}\) the second of \(\text{ uniform}\) the second of \(\text{ uniform}\) the second of \(\text{ uniform}\) the second of \(\text{ uniform}\) the second of \(\text{ uniform}\) the second of \(\text{ uniform}\) the second \(\text{ uniform}\) the second of \(\text{ uniform}\) the second \(\text{ uni available life by any tasks in the latter care a magnitude continuation of the continuation of the hundred miles from each officer, the distruction than represented violal mounts to be no thoround fine hundred miles. We know also that with armore advantage through an enemy is entertry, as for example the Germans in 1870, the Russians in 1876, a special stage of stage for the wounded in-Configuration are Centime in 1997, the Assistance in 1997, special sample if service to the wondow in-cloding ruleary conveyance and post hospitals, become organized elogopher interspective of, and in addition to, establishments with the active force when, is such a condition of affirms thely to occur with regard to our forces? Tet for such an improbable, in died informpossible, contingency all the conditions regimental and other, which have inthesto worked well, whenever they had a fair chance given to them, have been thrown out of gent, in fact abolished

But it is observed our unbalance establishments, we not constituted, are upon the model which has herefolders worked successfully in America, in Germany and in Prance. Have they exer, in reality, which assertsfully in either of the two letter? With regred to the first of these two it is on record that with all their professors of system, counsel on occasions by upon the field untended for two and more days after a battle, that bedding and hospital clothing were deficient or altogether wanting that pitients affected with small pox were intermixed with wounded and those antogener various of the presents various with a string por New Intermeter with a conduct variation with his discognite operations, in fact, that the seener selviced by Sir John Pingle in the middle of the past contain, and Sir James McGragor at the beginning of the present, with regard to general hospitals, were repeated during the wird 1 SIR 71, that said conditions as for more than one hundred years it had been the aun and object of all concerned in the administration of the medical department of the Butush runny to avoid were here reproduced under the operation of a system to

which we have reverted

Is the question asled what do we propose instead of a system thus shown to be ill suited for outposes of garrison life in Britain to be nunceessary for held and autumn managuares in the United Kingdom, unadapted for war in Asia and Africa, and ill suited for that in America or Europe? The question is by no means difficult to maker. Here is one solution. Let us for the sake of illustration. assume that a corps d'armee is employed on active service under conditions suitable for British ie gulations being carried out. In such a case, regimental and bir gade establishments would consist of personnel and watered personning to themselves, those for durinous general head quinters, and reserve being departmental, and unconnected with either of the former, although directly under the orders of the general officer commanding the force and of the principal medical officer. Thus the several establishments would include the following 112

(1) Those alrays present with reguments, recompanying them on the field and affording first aid.
(2) Establishments deaven from reguments supplemented, when necessary from elsewhere, and emplained affording aid by means of light ambulances, or field hospitals, between the first and third lines of assistance

(3) Tield hospitals, or brigade ambulances.
(4) Those of divisions
(5) Those of away head-quarters

(6) Reserves at the base

(7) The establishments connected with the mother country and communication therewith

(i) Regimental -- Invisional as the regiment is the multi-ry unit, so for the sake of convenuence it is taken as the starting point in the present summary. For each battalion on its service-footing there should be three medical officers, irrespective of any left behind in charge of sich and non effectives. In this way one would be available to accompany the theops into action, and two for service with the brigade ambulance, formed in a measure, from regimental establish two tor service with the foreign abundance, formed in a measure, non-regimental enables ments. Smaller boiles of troops, as instrers of rutility compares of engineers, &c, should be provided with medical officers in proportion, their wounded being lool of 4 fits by that several highest establishments. In three of precede the sick of regiments should be attended by the medical officers of their own regiments (and as the most recent recommendations with regard to the French samy would have them be)

In vs., the greet majority of them and of the wounded must be sent to ambalances and other establishments thready cummarited. The mosterd officer proceeding with his regiment on the field ought to be attended by a reputential orderly, currying a field companion has own lit being counsed on the regimental wagons. Surgeous of regiments engaged should according to particular orientations, either follow then several troops independently into rotion, or unite at a determined point to which the wounded should be brought for and In European war it will be found that in most instances they must follow then regiments

Biancaidiers -In each company, or body of corresponding strength, there should be two soldiers trumed to asset in giving, first, and on the field and in the removal of wounded except when required for this purpose, they would be among the effectives and in action. In

India dolle and other beauts, under the superintendence of two or more soldiers, are usually thus employed.

(2) and (3) Broade etablished made —On other service the establishments of the second brights should, when muted form there of dristons. With a view to reade; it easy to carr out this trust tion, medical officers serving with regiments in cautonments, other than he who is to accompany each on serious should from the and ultruces; together with such men of the anny hespital compare is in travally employed in this serious of brigade hospitals in quarters, the whole heigh under the scream moderal follower of the brigade. The means of transport should be obtuined disconsulty. Beviles the regimental establishments of medical officers and other person el, bargade establishments should be completo in themselves. Each such bignede hospital should form a third portion of the divisional estab-behinent. It should admit of ready separation into ambulance or flying establishments and field Appendix IV]

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hospitals, the latter to become sedentary in the event of accumulation of wounded or other encumstance rendering this arrangement necessary Luch brigade establishment should consist of five metherl officers, one compounder three stewards or resistant stewards two ser courts of the rims horn tal corps, twelve orderlies to attend on wounded, twenty men of the army hospital corps for 1 on 1 to fessional worl, one cook, one washerman one sergeant and ten soldiers of the army serges true. together with equipment for two hundred patients irrespective of, and additional to, regimental estab

(4) Dismonal -The unbulance establishments for two brighdes and that of the reserve, as above enumerated, should when united, form the establishment of a division, it being understood that with the re-error there should be a principal medical officer of the division, together with a middeal officer as assistant, and a clerk. There ought to be with such division a sufficient reserve of stores, medical as assuming our servers to make the region of flower value of medical officers consisting of those who are untirched, as well as, when necessary those belonging to, but for the time being deficied from, their regiments and who on the completion of their particular service would rejoin the e regiments Lack of the regunental medical off cors should have two field orderlies and field companies also belong ing to their regiments. The entire establishments proposed to be assembled divisionally, if the arrangements are adapted for European war, would include the following, we

One principal medical officer

Five surgeons major, of whom four from regiments engaged.

Sixteen surgeons of whom twelve from regiments Two word masters or hospital sergeants

Dight orderlies for attendance on sick

Twelve orderlies for other duties as cooks, stores, &c

Twenty-eight regrinearly field orderlies accompanying regrinentyl medical officers Seventy-seven by mearthus meluding three sergerints and eight corporals

In India the propertion of attendants, brancardiers, &c would be made up from Native estab

lishments neancems. According to German regulations there are twolve divisional field hospitals per corps d'arriée of 20 000 men and the transporment is considered good as lawing the special datant ige of dresminating act, and wounded. Each division in it hope that so there consists of three positions, namely, one to recompray a division of infantis, and one for the reserve, that is each is expable of sub-livision into three brigade field hospitals. Lich individual divisional hospital includes one medical officer five singeonsmajor, ten surgeons, one apothecity, one heutenant, six purveyors and then assist nto one almoner (chaplan) six non-commissioned officers of orderlies thirty six orderlies for siel, sixty orderlies for other detrycing as how commissions out to go openine starty an openine so see as a consistent of the dates one peak, and other stored heps; three surjectives, there are started one of bled-start I one capentar three non commissioned efficies of the true, and thinty so less of the true. Each hospital of this nature six aid isopatial to 600 set, each six division of it 200, for the entire copys d'ans so I 800 without having to fail had, upon the reserve long title the hitter should provide for 300 more, or utilizing the imbulance bettahen which should tale 500 additional to these thus provided for Thus without the resure began what should be a murch at level behind an active force the heapth's with a bould be a murch at level behind an active force the heapth's at the front should be cylibbe in an emigracing, of accounting 2000 wounded | at congradience in an active II connection with these divisional hospitals medical officers officer corp a dratte in an action. In connection with these division in longitude medical medical messages and personal principle of the calibration of the connection with reference to the cost bishments being divided into three sections, as show a minimated. As soon as pessable after a british, and of the counted as we transport it is, should be inconvoid to a considerabile distance in the rear, thus they arrow these sections at the front sendy to provide for further ensualties

For each of the three sections five wagons or conveyances are required, m, one for inshi ments, apply need and medicines, one for cooking and food, three for hospital material. The two first magons

to be for two horses, the three last for four each

The suggeous, officers and purreyors of the stray hespit I copps are conveyed in an emmibus of the frain, and it is used during buttle for the transport of mounded

(f) He erro general lead quarters—According to arrangements suited to European valeure the reserve with Lead parties of a corps diarnee should supplement the requirements of the diarnosmal and almost, the nutteral conversed upon six vagous that is one additional to what is required for the three sections of a division. I ambidance, or, say an establishment equal to an entire division if ambid Pance This establishment should be so arranged as that one part or the whole should be convertible, if necessary, into a sidental hospital, the other remaining mobile. The person of should be composed

tollane at a street a surgeons in per baths surgeons, three problem into the consumers and the consumers are tollane at a street and the consumers and the might be mind by officers to commend, there channer, made stage into or left a thirty orderlies for general work, the style can commence and others of the train, three 1 agg ge mustice three cooks, three withermen, mue any enters and joinars, aighteen

servants for officers

secretic to tomain.

(f) Ist (little is to: ear of a face.—Under the extremistrates in which the little is the real of the fatherm is the to be conjugal, exhibitments of this nature result rempts. These of the explored of holing, or of and at itom as the communications to be judy up with the mother country. Then organization at fact. I health equal to one, entire discount be july for and any provision for the act of moundary and it the just is the fact, but not remaind be july previous myself by it, pant if for the class. transport I home and not of and soremed many med with this view, although to a great extent it is would be compleed by an ung ments direct from home. In these establishments also, in ungement should exist for the disposit of men who, slightly wounded, or recovering from illness, become fit to r join the netive for s

Lin non turn to Indea, and endemour to true the ree and progress of arrangements for all at I wounded solder on netice service in that courts. The cirk of the with it rence to which it informs then with regard to them is smallle is 1791. In it field hay till of some kind on it! for me time befor them a evil at fa in the eigenstance that the inconsenerce and defects of the mater of no arets. In that were the title untof any professible regular it on fed u ten providing for more than the lable tense of sicknes and a pure called forth a 3 neral order to Dail Corne disc deted 1966 of Aspend, irreguanting certain change and unyou create in the system, such as it as. It is appearent from that order later each agencia whether of Natives or Whites, had its own surgeon. An allowance in money was gratified to such surgeon, and out of it the was expected to inchange will property out to the Major the surgeon of the subhest mode in surgeonistic considerable, for mediance, behavior of the subhest deep streamment according to regulation, were to be priched apart from the outhany regumental cases and if the former over usually count, they were to be supplemented by the latter und when the set of everyonder of their regulation of the subhest were removed from such field expends to these that were stationary, all expenses were deruged to their regulation for the supplement with the way stationary, all expenses were deruged to their regulation of the establishment, for notice the preformance of all necessary dates on the part of the cornection of the establishment, for notice the preformance of all necessary dates on the part of the

make to suggest a State angions we not exceed two by symmetric owners, as in a determined as constitution of the activation of the constitution of the activation and the constitution of the activation of the constitution of th

under Wat Office Regulations, the superiority of the latter at the time is manifest

The first Bunness we occupied the period between 1824 and 1826. At first, and for some time first is conversion, the tops a term but timing to absolubly destinate, of all sepamentaris for preservation of bettlin, and for their people rue when nel or wounded. The extraple the 34th Poet build with an allouance of betters for firm doubles, but no doubles were provided allowed the suggest now does not be considered to the state of the support of the suppor

secondly fine and a built per cent of the original familiary. Each agreement and its own establishment, and, an additional content of the con

medical officer at this time wrote —

It is 6 rps sing that, in a country where hostables have been so long carried on the most essential branch of the military depa faient is so very del c out and imperfect

In 1843 the war against Gaalan fool 1 how On that accessor simple surrangements critical regimentally for such and rounded there were also a general hospital establishment, which would eliminately, may he addition to be in of those, arrangements were made for the cort capine of control by country-critic to All initial, whence they were despitated by the Ganges to Calcutta, and so to English.

defector, so remagness in Rein for sock and nomined on service use on in this time, extraously defector, so remain many the even lest and a gravit deal of worlded demonstrate experiment. But a change lead nor index of the temporary of the remained of soldere der 1 led a complete we possible, and henceforth a sixth advance in segart to them took types. On the occasion of the Sails via in 1845, much latitude was left to the Superitorities (Saigness, D. M. telest) of the Individual Service, who was chrough with the organization of the machinal managements connected themserved. In situation to regree till establishments, a rule, a longitud and reserve of stones casted at Forencepe. It is clear however, their no regree in plan of procedure and reserve the state of the second of th

hearers, the e being all that were procurable to meet the sudden emergency of that war. On line being formed by the force the regimental doobes and establishments took their position in the rear When wounded began to full, these establishments bulted and all gave assistance, arrespective of tem ments, the landsmen being utilized to ling in the more severely injured. Soon, however, confusion occurred,—officers and soldiers curied may doches, appliances, and water Di Tiylor, or, tells as obscured—context and sometimes where it we dones, uppeared, you waster. In 19,6,7,6,1, the little, to great ere countenance, the Api Need 1 supply of instruments, diversacy, and redomine in a Goole, that 1 supply Good in, the suggess highest canalles, and thus continued their vertices on the field, but the fine of the enemy being diarran threelys, they found it impossible to proved, "and say the view of dooless, crunks, and stry houses, good many of the nominde net removed, although, as indicated observed, even many lated to be left upon it without and of the Na had. After the belief of Sobrum, 16th of Lebrum, 1816, a large number of wounded were taken to the general baseital at Terozepore, where numbers from Lerozechali still remained Barrael's as well as hospitals, were used for their reception, but all being overcrowded, hespital gangrene, attributed to the circumstance, broke

out among them In 1816 the second Sikh wir took piece. Dr Renne c s , profiting by the experience of the past, drew up scales of equipment for regimental and field hospitals, which may as well be taken as so many models Luch such scale represented the personnel and natural for one hundred sick, or its multiple up to three A large general depôt and reserve store was established at I crozepore, including doolies, he nees, and other means of transport and remiorcements of supplies, these being sent to the sooties, he was, and othen means of transport and reminiscensials of sugains, three being sent to the front a required. To the troops apearing or hisly to open the mit hall, courtry to red this John, Anywerh or camel littles a new provided for the conveyance of sack on wounded. In redidation to it can man; regressed it transport devices, believe were size new exp. these, black the ordinary abode, seven good only for trouports of the such, but so bedsteads for them in the loopstail tests. The tents were exempt of the convergence of the such, but so bedsteads for them in the loopstail tests. The tents were exempt from a leverospot bold the fix, and with the tellular distance gave reconsider, remained, treatment of the state of the second of the wounded, remaining which is and a statement. This is the regiment he say the labe but to need all requirements and deconfident of the next buttle fought, namely that of Seedalpore. In the meantime an outliers, of small pox threatening, wringcounts for an infectious hospital were mide in connection with the general establishment. The seck and wounded were after a little, sent to the rear, and the hospital their more disturbed to the general lates carried the wounded to the general hospital state. pital, from which they aren in due course consented, thus learning the active army force to set. At Guzers, teg most 1 and falled hospitals shike recent of wounded, and give help to those of the enemy left upon the field and a seminal arrangement was obest quel nespect to the force sent in pursuat of the Sil his towards Peshauar

When in 1867 the muting of the Netwo array broke out, arrangements for sich and unusual had to be extemporated out of such establishments as ensisted in connection with regimental hospitals, and there is hitle doubt but that had it not been for those establishments, no adequate provision could, under the emergency of the occasion, have been made. After the first outburst had been met, field forces were organized, and by them military operations prosecuted simultaneously in a variety of directions. Let the force that idvanced through Ondh, from the eastward, be taken as an example With it the medical extractions are enturely requestly, and at the sex or al relorms fought thursing the advance. If such exhibit-incurs unded gene the needful help to the your left. One concentration, because it is such exhibit-incurs unded gene the needful help to the your left. One concentration, because it is such exhibit-incurs unded gene the needful help to the your left. One concentration, because it is such as the property of the prop so as to isolate the force. No did it again have communication with the outer world until some ten days afterwards it emerged at Luci non. Thus to leave behind such or wounded was improvingable They had to be carried on, then in mbers each day accumulating, but, with the regumental establish ments complete, all were well looked after and attended to by medical and military officers of the regu AGENT COMPUTED, IN SECTION ROBOTH VISE AND ACCOUNTS AND A suddenly organized to proceed to the relief of Azinghai, and as subsequently transferred to pursee Kom Singh across the Ginges and into the jungles of Englispene. The hospital establishments and a consider that he control is guaranteed and a considered with a control is a control in the pital establishment accompanied as a matter of course, and without any special organization being required beyond what threads existed

With regard to the ordinary routine of medical duty in India during peace, so strong are the convictions entert med regarding, and justified by experience of, the system of regimental hospitals at administration, that both are strongly advocated and curried out, as far as it is practicable to do so, by numerations, that both are stonely scheecied and curred out, as far as it is practicable to do so, by means of moderal others sumply included united of belonging to, regiments. An important on thus attends at that sol, whether officers, butter solders, on their families, reconspround that the statument is that sol, whether officers, butter solders, on their families, reconspround intention when meats of the tree, as the sea then in all reads to the the field or accompany the corps by each meat for the tree, as the sea then in all reads to the the field or accompany the corps by each and for fulfilling their purples to which each their steady considered companion that takes place. At the very time the a suck are boung arrang, I, there are, in fail and successful using attemption of the tree of much considerable and the state of the successful or any throughout fall in produce of 1-10 fear, therefore, of such freely, are may just the each time due to the description of the successful or any throughout fall of a value of 271. In the free, therefore, of such freely are many just the each time day of such exhibition that are just ind gone, as such the contrary. Let those are possible for such matter, then, here a very to objet the summarized, then, here a very to objet the summarized that a fall Required in America, and with regard to regimental terms statem and general hospitals, not to "swep hor-is covering a first."

ANNEXURE D

Extract on regimental hospitals in the French army from my " Lesions in Higher and Surgery from the Iraneo Priestra II ar page 27

Renimental hospitals and regularized surgeons in the French of in-Resimental hospitals as those establishments are understood in Ingland, connot now be said to exist in France always the case however, for their history, like that of many other institutions shows that they have had their periods of populatity and of unpopulatity, and that their separate existence dates from a period antecedent to that of the now more favored general hospitals. It will be remembered that Sully esthistical the first ambient hospital at the signed a massions. It was the remembered unit to Sully esthistical the first ambient hospital at the signed of Amers, 1997, under Henry I. Pegord the first stationary Inspiral, under Lours VIII in 1600. that under the sign of Lours AIV the regimental estimations to see evoletion in number on defenseit, and them 1755 the general multirary hospitals were suppressed. Trom that date till 1792 regiment if hospitals formshed the only viviabile means for the treatment of sick and wounded soldiers. But the change that had been made showing itself to have been made of too sweeping a nature the general hospital system was re established and from that time the regimental infirmary has continued to be looled upon is an altogether secondiny institution, Marshal Soult being the only military officer apparently who really was alive to the important place they were cythle of occupying if conducted as they ought to be Medical officers have always deprecated the secondary place given to the infirmrues but hitherto without realt. They have represented to the authorities that in quarters they might be made to serve several good purposes, that under more developed conditions suck could be fire ted in them with less expense to the State than in the large and more complicated establishments that many men who are sent from general hospitals to duty before then strength has been established would, in a regimental hospital be permitted to to duty before Welt, stength, who show catalastic the could be a figure extended to complete convictence thus a wolf be into for the clapse, and similaring the interface of an extended consistency of the control of schemes and mortality in the sum; the third considered dies like to early between soldines and their stores which they now leek, of gaming predect expension in particular likes used in the opportunities, which they now leek, of gaming predect expension in the inclusion of diese sold as in those of organization. Further, as II Diotetry points of "the in the inclusion of distinct level consistent that the health of this torops, dies plane, and the public treating head also derive given the interface from this mediation." observe, however, that these establi hunerts are altogether supa ite from and independent of, the articles or granzed for and specially intended to work with divisions and corps of an army on active military service

Some years ago the establishment necessary for regimental infirmance was reconsidered. A few of the recommendations then made have since been carried out, but others still remain to be so, and meantime the conditions are, it is to be fe ued, anything but a disfactory

Dr G Smith M.D., Sargeon General Indian Medical Depart

ment, Madras

I am opposed to the substitution suggested on the ground that it 18 1mm acticable

Ale Madas and the same remarks will in principle apply to other large stations such as Secunderaliad and B agalore. The hospital of the Bodyguard is on the Psplanad , one Native infantis regiment is stationed at Vepery, a second at Penanbors, and a third a long Let us suppose the engineered disspirits about and in his of them a

distance off, at Royapooram central staton hospital constituted and let us place that station hospital at the most con venient spot, it would still follow that every sick or injured sepoy would have to walk or be our nod-uncolving extra expense in doches or six earts—from one to two miles before he could find the medical and and shelter required. How would thus unangement arising in cases of recident sunstroke or severe fover? how in the hot or runy season? how when epidemic cholera has attacked a regiment? The substitution proposed is inapplicable to single stations, where the regimental hos-pital system must be retained, and is impracticable in the case of it e larger stations in this presidency Further, the regiments referred to base each one commissioned medical officer + Should

economy require that that number he lessened and that one or at most two medical officers be expected to attend, not only upon the sick of the segments collected in a station hospital, but also upon the officers and then Jam lies, and upon the medical requirements of the lines then it becomes beyond that nothing but disappointment and failure would lesult. The deficient arrangements would have to be supplemented by some form of medical aid nearer at hand, and by some form of temporary shelter for the sick near the lines and what would this be but the reconstitution of an objectionable

and mefficient form of regimental hospital?

The mean entence which would result from the adoption of the station bospital system to the sepoy would be very great in consequence of the peculiar constitution of the Lative aims of this presidency. A Madras Native riginant, say of the line, does not occupy brained a but lines of huts in which with their families and followers the sepays reside of the number of from 1,400 to 2,000. This community requires the constant supervision of the medical officer as regards discusse, vaccination and sanitation I ach member of it is entitled to medical aid, and all trust submit to the military and medical regulations necessary for the well being of the lines. When sick, the sepoy is mining that mention regions accessing the new set of the configuration of the regions and the mention of the regions and the mention of the regions and the mention prepared in his own forces, or brought to him by members of his own family, who with his franch have unless the nature of his sid he s present thes access to him. The Undres sepon has no objection Drie unes de nune of in set de precent de conservation de l'active popular de despetable de la conservation oversome the law to a construction of vision services and the construction of vision services and vision for regimental hospitals, the custing system of design the suck already returned to, which though somewind objectionshile in theory, words fairly well in partice, would be servicely interfaced with, much to the incontenence and desappointment of the sepon and of his tamily

The existing system works well and economically in the Madras army. It is convenient efficient eafle to the set bete s ted from its med by one consistency. It is convenient system for emerge e similary and med call and most a necessariance to the latter passes the valence of the valenc d splaced by the general to pfl system at present a vog e in Europe to vg men and heep i represents a simple organization suied a lefor variand for piace. Let a sudd a demind to troops ar se the reg ment takes the field with its lopital complete and thats ned e officer and medical authordurates from a terror to the part of the med call history of all networks of managers which two blocks are be by med call office s and s o darktes I to are utter stangers to the regement I fall to see any advantage durable from to not ut on of st bon loss falls with h r regulars. As it is easy advantage our water our is at door is a more repeated to be communitations of sick. I le of the pewal system of regular lines it is to time of pase and I have yet to be convinced of the r supe of to time of var. All Ind an emp gas will a the prevent century so far as I know he obeen earned on with regularizing eneme hoop is and I must amount among that a better system has yet been devised for the Inliam my I do not deny to po blig of a better system but unt the details of t at letter system ha e leen thought out a lideterm ned I see no advantage but much the re erse in substituting station or garrison for ag mental hospitals

D pu Su geon Genera J I S Fogo, Offi ng S geon C neral Br ti h Fere s Bomb y

Very mue in favor of stat on hospitals instead of the plan of reg men al log tals ut with regimenta medical officers o shall be for gene al luty the hosp tals in le the ordes of the emor medical office and slal treat their on sch

D W G Hun Mr Su geo Genra I dan Medical D partment, Hombay

I am q to n five of substituting a system of stat on or g n son losp tals for the present system of regiment I hosp tals and be eleflat t ou d be atte ded with increased efficiency and con de able reduct on of expend the notine bord nate establishments only but u many othe as lo instance in hife er medical officers old he requie and ny yettye resenor meu ed would be greathy edu ed. Seh a system wou d pro e of benefit to be med cal of ee I meef t oud g e h m no e occ p t on a mucl des ed end no e te et bs or h sh roen I szeal and neces tate spaying now thent on to p ofessional stud es than the pres at system tends to und ce

D. C. m. Sm. Den. t. S. green Genera. I d. m. M. d. m. Den. partin m. M. m. d.

DJGbb DptySngn Gnra Bbocc Mra

A system of sat on orguson log tales sed cet cooliny of the for sen lleggt to be the true ceonones stem lam not votest to a lop tisting extended to Inda and formed mal resttos ulgarons When t becomes neces my to detacl a corps there s no diffic hty in att el ug to t for the t n e a s fl c ent med cal es bi si nent

D payS nG relS T 1 p cer Auram Γeld Io e

I am of of on that's a on or garr son losp tals may til d'unt are les ls uted for reg nental hosp tals for both European and Nat e troops

Srgeon f G H C L A n D f Surgeo Gen ra nd D as n

Most dod diy Ihesen ny cao fotis op on a dhave slon hitsang porlould beeffetel by timing the latey submitted to the Army Ogmiz on Connson

Surgeon W J Pe I F n or of Med on Ac ou B g

Tiee s much to les d for loth sis ms on the gro nds of

Supposed a Teclo Paragraph of the grant of t

found sufficient,-and I am not aware to the contrary,-it uppears to me to be going nunceessarily out of the way to introduce a system which may be suited to the necessities of Continental armies. but which under an altogether different set of excumstances ridds to expense without so far as I am able to understand, bringing any corresponding advantage. One of the evils of this system would be to divest medical officers primarily of their responsibilities in connection with the care and supervision of the medical and surgical equipment. As these are always obtained on his own requisition for his special use, it is only proper that there should be no shifting the builden of responsibility on to the shoulders of subordinates I consider if more attention was given to that minutae which constitutes so large a part of hospital practice, and less to a desire to assume command and exercise authority over so large a part or insignal produces, and rices we a clear to a straine command and test cancer controlling over men and matters, which would be best left to others, greater efficiency and economy would be the result. The sampler your hospital arrangements are the better. Again, the introduction of such an elaborate scale of haspital equipment as that find down in G. G. No. 681 of 1377 to be kept complete and serviceable in purveyor's store for the use of a regiment of British infinity—a scale that exceeds the coat of that valenced in Military Department letter No. 800 of 371 June 1382. 78 per cent, rites being equal, is, I consider, beyond the fair limits of the soldiers requirements, or what the public ought to be saddled with

Surgeon Major T. H. Porter late in medical charge of Field Hospital, 1st Division, Peshawar Valley Field Force.

I am in favor of substituting a system of garrison hospitals for the present system of regimental hospitals. I believe the station hospital system will be attended by greater economy and with better results to the sick, where there will be opportunities for medical officers to consult with one another on more important cases, and where medical officers would be more likely to have at their disposal every modern surgical apphance and remedy

Surgeon Mujor C Mart n Army Medical Departm nt, 13th Hussars.

I am entirely in favor of station or general hospitals, both in time of pence or was The regimental system is cumbrous, expensive, and not efficient

6. If this were done, and the various hospitals in a garrison were placed under the semor medical officer, would there not be both great increase of efficiency and also great economy in subordinate establishments?

Surgeon General J H Ker Innes British Med rul Department, and Principal Medical Officer, British Perces in India,

The formation of station or garrison hospitals in contonments is advisable, not only financially considered, but also for the purpose of effective administration. It is especially in times of peace that medical officers should receive their truining in the system which is to be carried out during wer and unless hospitals we consolidated in cantonments, no system of training is likely to avail

Unless it can be shown that there are special orcumstances attend ing Indian service which should make it an exception, there appears no reason why the same system which is followed in all other pertuous of Her Majesty's dominious should not be made applicable to India also Moreover, no attempt has hitherto been made to assimilate (so far as differences of climate and service admit) the hospital and field equipments of this country and home, although State reasons may hereafter render a repetation of the experiment of the employment of Indian troops in Europe or Asia necessary The consequence is that an officer arriving in India finds his duties new to him, and after a service of five years in regimental hospitals returns home to find he has forgotten the details of the station hospital system. This cannot be continued without detrument to the medical service

as a whole The system of treating sick regimentally has obtained parily because it has heretofore been considered necessary to regard all corps as capable of acting as independent units complete in themselves, ready at any moment to take the field or to undertake marches of long duration, and partly because a

single corps may be quartered in a detached post

I shall enderyour to show presently that under the altered conditions of modern warfare the above-named it is not show lost much of their force. The isolation of a single corps in a station is wholly exceptional, and our railway transport has for the most part obviated the necessity of long muches Nevertheless, I believe that, however much we may generalize our system of medical administration, it will be always requisite to maintain with regiments of infinity and cavalry at least one medical officer This is necessitated by the presence of the wives and fumilies of officers and soldiers, the inspection and care of pusoners, and the general suntary requirements of a corps, &c , &c

According to the existing system in force in our large stations, there is a repetition of the equip-ment, &c , for each corps hospital The waste of material and lubor is obvious, and regarded from a common sense point of view, it can scarcely be necessary to maintain for two or more corps units, with

commune scars pours on reve, as can excress our excessing our ancient not two or more corps white, with hospitals in juxtaposition,—it may be under the same jost,—full and complete sets of stores, surgical appliances, and medicines, as well as separate establishments for each independently. This the station of Umballa as an example of a station in which ill aims of the service are present, although Umbella, from the limited accommodation in each corps-hospital cannot be cited as illustrative of a station in which the station (garrison) hospital system could be easily applied. The Luropean force is generally composed of-

One regiment infantry, One ,, eavely,

Two batteries of royal artillery treated in one hospital, but with separate equipments

The equipment of a British hospital may be classed under two heads, 112 -I -Motherl and surgical stores under the custody of the medical department

II -Bedding, clothing, cooking utensils, &c , under the custody of the commissariat

With regret to the first each corps unt is supplied with a complete set of strigued incirnments and applicates. Were the seak treated collectively, honever the scale of instruments could be reduced to one hill often stange provision for any emergency (excepting a w) that might arre. As an illustration, that the following costs ratiols—

Artiers.	Present sede of total force	Probable re q uses entrof a central i os pot si	Reduction
Flectro gulvume appuritus Instrument, amputating Do do, Do cappung Do cammin dissecting Do modivitar. Cutheres siles reds of 12 Fracture appuritus	46886644	1 2 1 2 2 2 2 2	40 TO TO TO TO TO TO TO TO TO TO TO TO TO

So that in 38 cases of instruments at is producable to reduce the number to 14, being nearly one third of the money number.

of the present number.

On the time of much the whole of the meched and suggest stores of a corps is taken with it,
thereby not only affecting injuriously the citores thurselves but module, here, cost for carriage
This is being considered, a cost matter it my suggestion having under its consideration the remodelling

and convolutions of medical equipment for mile by, manking, and field existed.

With right to No. II (localized coloring %c) there is under the regimental system, equipment for 119 and men, being equal to alout 112 per cent on the cationated strength of the geneson. Were the end treated collecturely. 10 per cent would be unply, those saving the equipments of 55 below, the

estimated to the which is Rs 2 500.

On the line of march, the whole of the bedding, shotlying the prefer for the relicions troops, and a special marching or rather equipment (for a per cent of side of former, and I per event of latter) in taken. The marching and rather to equipments compared such articles only as an af shiled piece say.

taken. The marching and rule is compinents compares such articles only we are d of t/d, nece say. The Subcarbinete M d oil Department requires to be remodelled, and the dittals of my proposals under thus hard will be found in the attached correspondence $^{+}$.

On the agreement was the termy hospital conp. the form ton of which has received the approval of the Secretary of Si the for India, there will be a reduction of about 1,000 serv unts in Bengal—one thand of the Secretary and Secretary and Secretary and Secretary and Secretary and Secretary and Secretary and Secretary Secretar

As illustrative of the method of reduction in the foregoing the following table in appended—
State set of done is the present establishment of hospital sociaits at the following at them, and the reduction
which could be of close in the strenk upon a part and a more efficient class of seconds as proposed
on the frantion of the ary ploy it Rite coups

	Orpi	NET GAR		A unil er of	Numl crof		
Stations	Britismes of storal Artillery	Cavalry	Infratry	sura is t pr~est asthorized	servents on an affect on of log tals	Reduction	
Umbella Mecrut Lucinow	2 1 2	1 1 1	1 1 2	1 f1 171 199	100 113	41 46 56	
Fotat	8	3	4	511	368	118	

Note - With little of malinital user sering to the rima station and the sack are true field calle finely a red different states and dender protection.

Hospital I propriest

The great strong which must be effected is obvious. The mean dust suck for the Jumps.a icre in Bengi to is uncer to per cont. for 1577. Jush regimental licipation, Jones in provided sufficient movements of pagent the about 12 per cent. of each, on the citizen brayatal system, this could be early reduced to 10 per c. int.

Mel cal I till threat

If the Stainbark Neiberl Depends of the organized and discloped as proposed in latter has $N_{\rm coll}$, that $N_{\rm coll}$ into of the model cell the based collection of some and twing of he. 2 0.000 are only but until the latter term, as completed in 1.4 do not set if any noise in collection of noise in case per to all. Hold the sense that when the latter is a both case of lands of all collections of the sense in the community which he for a corollar property of the sense in the community which he for a corollar property of the sense in the community which he for a corollar property of the sense in the constraint which he has a sense in the sense in the corollar that the sense in the sense of the

(855) [Appendix IV

officers on the sick list at that station at one time, and the percentage of medical officers admitted to the officers' hospital was 38 3 of the whole in umber

as one care maple of uses to o occase unous name.

As the restlot of statuture extending over 50 years, if has been found that the death ratio emong army medical efficies was 30 yea. 1,000 against 1s pm 1 000 amongst the combinant brackes of the service, to say nothing of the namebre temporary by or permuently, in-reliefd from this country for diseases remotely fatal At Lundi Kotal the sickness among the medical subordurites also was at one

uncross removes that A billion field has been substituted by the first Si of t

temporary to an control valued of the Institut metabolic Populations, in the was someton of account and and, however temporary, to the British medical service

Brighty then, consolitation will effect a reduction of perio med, and by furthinting the correct

Brighty then, consolitation will effect a reduction of perio med, and by furthinting the correct

Brighty then, consolitation will effect a reduction of perio med, and by furthinting the correct

Brighty then, consolitation will effect a reduction of perio med, and by furthinting the correct

Brighty then, consolitation will effect a reduction of perio med, and by furthinting the correct

Brighty then, consolitation will effect a reduction of perio med, and by furthinting the correct and the consolitation of the period of the correct and the consolitation of the period of the correct and the corre Economy in the reduction of amount of stores hitherto requisite and by enabling provision for sick to be made according to large averages instead of being subject to the fluctuations of smaller ones

By making a reduced number of stationary hospitals do the duty of many ambulant ones, thus effecting saving in the cost of equipment and inevitable wear and tear

Surgeon General T F Beatson arn Indian Med cal Department

From the character of my reply to the preceding question, it follows that my answer here must also be negative. I am persuaded that there is in each regimental charge ample scope for the full play of a medical office a bullets, and that where a regiment in chick of a medical officer a bullets, and that where a regiment in motion of line representation of the representation of the representation of the representation of the representation of the representation of the representation of the regiment of the representation of the representation of the representation of the regiment of the regiment of the representation of the regiment of

He who makes the interests of his regiment, and of each unit composing it, escentially his own, will never want as much employment as the conditions of Indian climate in the plains enable him to undertake, and satisfactorily to accomplish

With such and as can be got from the hospital assistants attached to each regimental hospital, it is

impossible for the medical officer to depute the labor involved in I coping up his records, without so impairing the work as to render at impossible to construct his vital statistics with recurrey, or safely draw practical deductions from the figures

Nor, in my opinion would there be any reduction in the subordinate establishments, because of the absolute necessity of maintaining on an efficient scale the regimental hospital personnel

Theory may advance the statement that the menual servants can always be supplied by the com-missionat, and doubtless this is the case so far as mere numbers are concerned but with reference to unserunt, this discusses cars it are case of area more national resolution of difficult into texture 30 and practivel difficulty, experience as deal against principle of trusting at a most difficult into to such haphaxard recruitment. But even graining possible discusery under such a system, men would not be found valling by ounderfalse happing the discussion and the second recording to the discussion of the economical results integrated which while the most senious civils would be insept able from so faulty a system of organization. There cannot be any cohesion in such a hospital establishment, and therefore with the first scare, they would disperse, and leave the sick and wounded to find assistance from other directions

Surgeon General C A Gordon Principal Med cal Officer, Br tish Fatory Medicas

Much of this question is answered in my reply No 5. I believe that were the host itals in a gurnson placed under the senter medical others in the sense of a garrison keepital, not only would there be no increase of efficiency but, on the contrary a very serious decrease, and that instead of economy in subord nate establishments there would be

extravagance and waste as a result of the scale upon which to meet emergencies they would have to be maintained. I observe that under existing conditions the general emergences and state of all hospital affairs in a garrison are really under the senior medical officer only the details and administration of regimental hospitals are under regimental officers. In paragraph 9 of

american B the dissolvantages and causes of unsambibility of use the loop this are detailed, and I particularly on an american B the dissolvantages are distinct. An area of the dissolvantages are desired, and I particularly called the compute the method of similar actions in var demanded by such a system as compared on the dissolvant and the such as t with the combined regimental and general and I trust I make the point clear that as a matter of fact, not only is a larger number of establishments of the former required with a particular force than of the latter, but that, while with the unified system special arrangements have to be made whenever a body of troops is detached on any particular service, under the Indi system each regiment or part of a regiment if required to act on the instant, starts at once with its medical establishment complete and workable on the spot

But maxmuch as some of the conditions more suitable to a system of garrison hospitals than to regimental have aheady been introduced with reference to India notably the disconnection of medical regumental have already been introduced with retrease to links motality the disconnection of medicial officers from regiments and their retreat after skety bunds of service, it seems to mot be inquired of me, by the cope of this topury, the my personi rewer being adverse to both of those measures. I should so express rayed! Comprung goes conditions with the present, I observe that, where in former years a surgeon of a Datash regiment in India had of necessity served many years in the country, under the durets superintendence on the time, as reagreed the treatment of note, solders, of medical officers who bud similarly grand their expressions of endome disease, all this is now monutant. Method officers who the summary the country in the country of the stream of t their riows regarding the phenoment of endemic disease have begun to clear up, they leave the country it may be, to return after an interval of years it may be not at all. I am newilling to dwell upon what I consider to be the results of this system, not alone with regard to the treatment of sick men, but on the finances of Indra as influenced by the professional superintendence of the troops

Dr G Sm th M D S tgeon General Indian Medical Service Modras

From what has been said, it will be gathered that in my opinion the proposed system will neither be efficient nor economical and ineffic ency is nasteful extravagance. The diminution in the number of medical officers must be represented by a reserve to meet the oregeness of peres and of wer. Medical subordantes could not safely be dimunshed in number of the intense to be stricted to. There would be little officence in the expedition of necknoses, and very little in the number and expense of height servants. A stight saving meght be modely results reduction in the number of sweeges. The crivibulument of strium hospitis would moder much outly, especially it to estait, and expense which no waveratable contributions of the moderly stiff of the carsting expenditure of regimental hospitis would suffect to meet

Depair Surgeon Gereral J H. S Fego. Offic at ag Surgeon General Entish Forces Bombay Each station hospital must have its own medical officer in charge Unless there is one hospital in a garrison sufficient for the station, it may be necessary to line two or more station hospitals, each to furnish one state indicates for any number of course or hothers on it.

ask of returns for any number of cops or britteres in it.

I'ne known a hossital for five butteres of whilter where they were four separate longed establishments, because they belonged to found influent brigules, and they had to farmula five different test of returns to keep up brittery records. These was great waste of subody makes and of his part.

The old outsines hespitals for the royal artillery and royal engineers, under the Beard of Ordinance, were settion hospitals all over the world, except in India rad were efficient and exconomal. Once set of retinate for all admitted to them was sufficient and this was more recentibe as showing level providence on exception from disc so, instead of by buttery or corns.

Dr Calvin Smili, Deputy Sur geon Genoral Indian Medical De partment Madras It would discognize depend on what hand of a moderal officer the senser was, whether there was an increase of efficiency or not. Them would certually be economy at the hospital of subscienties, as forces would be required, if say three or four regimental hospitals were done any with, and the salt rented in a gramon hospital, but the contribution of the Mitrea may must be taken into consideration, not to the removal of the all where may must be taken into consideration, not to the removal of the regimental subscientimes, who lange, since finist it was mornly, been in the precise of "thousing the following, both women and children in the agenment's lange, and there would be a get a confer, near this prayingle of the frem them. A subscientimet science and require to be destuded to thand them, so that there would be accomeny in the Madrias army so it is the subscientimet science.

Dr J G bloos Deputy Surgeon-General British Forces Meerus Circle Les, the phenon of the hospital or hospitals in a germion under the senion medical diffees would form to increased efficiency, and he seems must be regards the Native etablishment, but I protest squark any hope for reduction of either medical officers or subordinates. The present error, so I o the point's recurring choles a quadentics, prove there are none to our not of either

Deputy Bargeon General S. C. Tonneral Lerra pel Vedre...l Olicer Kurana I eld Lorce The interagement and treatment of the sick would, I thinly on the whole he curried on with greater efficiency in a grainen hospital under the direction of an well-selected some modern elines from the accepted regiment it hospitals. The sistem of grainen hospitals would unablishedly efford greater facility for controlling expenditure of employers, and nould explicit the administration of ere to divition more fully the stiff and establishments of her to be stiff and establishments of her to be stiff and establishments of the stiff and establishments of her to be sufficiently as the stiff and establishments of the stiff and establishments of the stiff and establishments of the stiff and establishments in the stiff and establishments in cover of ordinary requirements in order in meet the radiale, contageness of epidemic out its and seasons of immorth schools.

Surgeon Major T G Horlott err Actor Deputs Surgeon Oc eral St Utrs on Unquestionably I have given my reasons in the report alluded to in answer 5

Surgeon Vajor J Petiali, mp Fra er of Medical Accounts D gal

Tide answer 5

S gern Ma, o J. H. Porter, Inte in M. Ical Li ape of held Hos and L. Ders at Leshawar Valley M. Lorce Les, there would be great increase of efficiency and great economy in subordinate establishment

hamen Major C. Varin Army Velic 1D pa in 13 h Hus re There would be a great raying to the State, and also mercased efficiency

7 Would the ampligumation of the British and Indian Medical Department between any to seeme this end ϵ

Later I im a force to the table to the table to the table to the table to the table to the table to the table to the table to tab

Such a merene must observe it be greatly facilitated by an unifed drawn - 1 s, and the seglanty impossible until we have an united melkal acres

Efficiency and responsibility are inseparable. Under existing regu lations, the promotion of medical subordinates doing duty under officers of the British medical service is in the lands of the surgeon general, Indian medical department Medical officers of the British and local services, respectively, receive their instructions each from a separate head no control in common belonging to either Moreover, the hygiene of European and Native troops is directed by a distinct set of officers, although it cannot be doubted that the increased experience gained by the supervision of both Europeans and Natives must add to the medical knowledge and, therefore, value of any officer under whom these duties are combined

Surgeon General J P Bentson at n , Indian Medical Department.

I cannot see any necessary connection between the establishment of station or granison hospitals, and the amalgamation, if that were possible, of the two medical services. Drea under the supposition that one medical officer would suffice to decharge the dates of each to the mind of many specific of the mind of the pretical man to unite the charge of both sets in the person of one model.

officer, and this being the case, there can be no necessity for making the one change lunge upon the other, as if they were necessarily and indissolubly united. I further behave that any arrangement which would put Native regimental hospitals under any other management than that of an officer of the Indian medical department will be the same starting point of much augmented expenditure in their equipment. Nevertheless I am a fine believe in this tien that an Indian include staff corps, entirely subordinate to the Indian Gover unest, and nanaging all the hospitals in the country, European and Native, without distinction, would be next lesseable. The management of hospitals would be in no way interior, while the econony lifely to be reoped under a purely Indian Government service would be very solid

Medical officers of the British service being no longer regimental, there seems no good argument why an additional step forward should not be talen, by having the tredical duties of British hospitals dis-

charged 1 j Indian medical staff corps men

It is impossible to concern anything more unreal than the stock assert on of Indian medical officers being unequal to the management of Luropeun hospitals, though the converse of it is in all likelihood quite well founded. There cannot, I conceive be any question of the absolute truth of this statement, that if the Indian Government possessed the decision of the question touching the necessary strength of the medical establishment for European hospitals a very considerable reduction would be an early result. An immense economical saving would be effected, while decided benefit would accrue to every individual officer from the practice of working up to full power, with the delightful consciousness, moreover, that he was truly performing duty somewhat commensurate with his monthly 1 ay

Surgeon General C A. Gordon Prine pal Med cal Officer Entash Forces Madras

I do not think that an amalgamation of the Butish that is, urmy medical department and the Indian medical service is in any respect necessary or desirable, whether the system of granson hospitals is forced on, or allowed to drop, as for the interests of soldiers officers and their respective families as well as the interests of the service generally, I trust it may be In paragraph 5 of annexure B, I indicated what seemed, and still seems to me, an easy and mexpensive way by which the medical requirements of the Native troops could be met by the army medical department. But there is another way in which the same pur poe might be fulfilled, and on considering the subject over since I formerly wrote, there appear to me several advantages attached to it, animely, to have the local medical service on the footing of a medical settle corps, those of its members who selected the military branch to stick to it unless under special circumstances when they might be per mitted to exchange into the civil branch, or be by Government selected to fill particular appointments. I believe that as in the military staff corps, so in respect to the military branch of the corps, I suggest ex-changes between members of it and those of the army medical depart-ment should be allowed, and that, were they so personal convenience and interests would be better met than they are at present, and the well-being of the service benefited thereby. This is a mere allusion well-being of the service benefited thereby. This is a mere ciliuron to which stril es me as advisable and feesable, details, meluding distribution of duties promotion, retrement, and so on, would have to be wolled out here'ther

Dr G Smith M D Surgeon General Indian Ledical Service Middas

Amplgamation is not necessary to secure the fullest co operation of the British and Indian medical services in peace or in war

The fusion of services so distinct in constitution, pay, pension, &c, as are the British and Indian medical services, could not be effected without the sacrifice of rights and privileges which ought not with justice to be set reide

The first 54 medical officers in the Madras army list are men who entered the service previous to the transfer of the Government of India to the Chaese LVI of Act 21 and 29, Websen Cap VI Crown, and an Act of Pullament's secures them in all (the Heuley Clause)

would involve radical changes in the constitution of their department, in their promotion pay and pension, changes which if curried out, would constitute raid grounds for claiming pecuniary com-pensation for any loss which might occurs. It is of course within the bounds of possibility that individuals of the class referred to might select amalgamation, but certainly it is not within the bounds

of probability considering the resured advantages of their present service and position. Nordo I think that the medical officers who have entered the service subsequent to the transfer of the Gorera think that the mounts have the current the certice subsequent to the truster of the forces meet to Her Minjesty would willingly recept with analgamation, masmuch as by doing as they would leave one of the bet public services in the world for a new certics which would publish offer fewer advantages with a fin less assured and decuable position. It will be remembered that an it tempt at amalgamation was made in 1862. In a despatch No 82, dated 12th March the then Governor General in Council recommended the formation of an amalgumated service for the united army of Great Britain and India, and submitted a scheme with that object drawn up by Colond Norman The Secretary of State for War objected to the proposed fusion, mainly on grounds which excited the astonishment and indignation of every member of the Indian medical services

The projected amalgamation was abandoned fortunately, I think, for the Indian medical service and india. The Indian medical service is held in high estimation in England, even though admission to its runks involves a long exile from home and all the risks of a tropical climate, and this is shown by the fact that the best qualified condulates for public employ select as a rule an Indian career to a caser in the British medical service. The first effect of amalgamation would be to alter all this, and to make

He Indian unalignmented service impropular mong young professional mon
Annigamation would sensorly injury, if not destroy, the special and most eliminable organization
of the Indian medical service which, as now constituted, embraces not only a malicary, but also a
certil department. This dual constitution fits it commands you don't for the engeneers of una, led also for the requirements of perce. Its peculiar suitability to the wants of the country is acknowledged by all, and I appeal to the great and progressive work this service has been currying on in this pres dency, as shown by the extension of medical and to the population generally, by the provision, making and made, of hospitals and dispensarios, and by the number and admitted value of medical agent, public and purite, who have been educated. We action of Generament has been more popular than punne and purvies, who have need current and action or towerment has been more popular than that the object of which is to provide medical and for the masses, and in currying out this great was, it has had the health and efficient so operation of the medical department. The present constitution of the Indian medical department is well adopted to meet the demands of civil life and the evigences of the jumin moment approximates we in appropria more the occasions in our interactive growth of wr., and I should deeply regret the disministration of the evisting system, whicher that the effected by amalgametion or by reparation of the ministra from the end department. If analyzanstous menticalle, it should, in my opinion, be restricted to wouldness from the old and now mentic services and to never entrants. Its uplication to the administrative grides is best with difficulties. If the submitted of the state of the st expectations in that direction of the old service would be set aside as legards pri, promotion and pension, and the charge itself would be regarded as a breach of contract. The subject is one which requires most careful consideration at the hands of the authorities. The service has already had its administrative appointments more than once diminished, and further diministrative null inevitably lead to remonstrance and disappointment.

Deputy Surgeon General J M S Fogo, Official i g Surgeon General British Porces Bombay

Certainly not, the records of the European and Native troops would have to be rendered separately, but that could be done by the medical officer of either service in charge

Dr W J Hunter Mr., Suegeon General Indua Medical Depart

The deared ends, or , reduced expenditure and mereved efficiency, could not be secured as long as two distinct method departments exist-Each would require its senior medical officer and its separate ad mustrature stiff, and so forth. Its true a certain raving and a certain amount of mercred efficiency would be effected by similgrantian, but much less considerable than were there but one department. Analysis mation of the British and Indian Medical Departments would not be so effective and complete, as would a system of having but one medical department for this country, as I shall show further on

Dr Colvin Smith Deputy Sur geon General Indian Medical De portment Madres

There would be no necessity, I should suppose, of an amalgamatical of the British and Indran medical departments were granteen hospitals instituted European troops would be treated in one side of the building, Native on the other. Until a few years had the midden officers of the Indian army treated indiscriminately Primpers and A troops, and there is no reason why they should not do so igain Peropean and Natue medical officers of the British medical service would after a short or perionce of Natives, be able to do the same. The medical men of the different services would each trut his own men.

Dr J Gibbons Devoly Corpora General, British Porces Meerst Cards

I see no necessity for amplicamation of the services to secure this end I behave both services to be essentially separate in their genius and re quirements. The peculiar nature of service in India, the constitution of the Native army, its medical wants, the number of different nation alties composing it, the subject of language, caste -all point to the necerate of a special medical service long retuned for In his I believe the conditions are fairly well met by the Ires at Indian medical depertment, and my attempt of change or miling the officers of either service interchangrable will result in disappointment, as I is seen likely to criend to both departments the discentishich non prevails in one of them

grafic and Court of C. or of P = 112 chestor or, 1-1 41 cr

The analysmation of the departments in all grades would not be nees are, but then would erriands be he danger of fretion in the working of the general hospital ry term if all the mode distaff belong & to the same d partment

S rgeon Major T G Hewlett, o.r.r Acting Deputy Surgeon General Sind Division

In the report already submitted I have stated my common that there should be one medical service for all India, and I recommended in it the withdrawal of the British medical department from Ind a altogether as unnecessary Any amalgamation of the British medical department unnecessity an imagenation to the Detail Mentral department
with the Indian metical department could only in my commo he ecomplaised at a great injustes; if I may respectfully be allowed to say so,
to the increases of the officers belonging to the Judium service
It must be remembered that these officers of the Indian methcal departments who were on the

abolition of the Honorable East, India Compuny to unsterned to the direct service of the Crown had their regists and privilege guaranteed to them by Acid Plainanet under what is known as Colonel
Heinly's clause. Officers of the Indian metional service elected, in consideration of certain advantages
direct to them to pass then lives in India, and they catesed unto a covenant with the late Homenable
East India Company, which Parlamente subsequently ratified. I have no hestitution in saying that mass name company, when returned sourcements issues I have no destinct in the range of these captainties and partiages must inertaintly be left to the Indian method efficies if the two services are sansignament as proposed. If must be remembered that Indian officers have not the opportunity of serving in Europe or Counds or the colonies, but all this service must be present India. Does the lever they take is, with exceptions adoleted from their service must be present in India. Does the lever they take is, with exceptions adoleted from their service must be present in India. Does the lever they take is, with exceptions adoleted from their service for pears on

This is far different to the case of officers in the British service, who only come out to India for a tour of fire years' service, and who can go home and recruit their health, and come lock to flaw the higher encohments which necrue to their higher rank. Then, again it must be remembered that service in the administrative grades as negarist the Indrin method department secures an additional ecrose in the definishment of grades as items to laters include a department secure in automotive present of \$250 year. It would asmry, I would respectfully represent, to unjust to deprive the Indian medical department of appointments which we the sole primes of the servoe, and which are green for expend ment and adulty fairs about twent year year server. The prospects of officers in the Indian medical department as regards reproduction would be irretreenably remark if any randgument of the contract of the properties of the server of the properties of the properti would this arrangement be, that the Government of India would soon have the same difficulty in getting men to join its service is the British Government has in finding young men to join the army medical department

Surgeon Mayor J Pethall MD Examiner of Metheal Accounts Bengol

From a careful consideration of this question, I do not see any bonefit as likely to anse from amalgamation of the two services. I do not see how thus can be curried out. If Government is seeking a real reform which shall be for the benefit of the public service, it will not be discovered in ample imstron

Surgeon Major J. H. Porter Into in Mod cal Charge of Field Hospi fal 1st D. vision. Penhawar Valley Field Ferce.

Yes, under certain conditions, that the training of all medical officers coming to India be thic, as suggested in answer 11

Surgeon Major C Martin Army Medical Department, 18th Hossare

It would not be necessary, and I do not see how an amalgumulaon of the British and Indian medical services is possible, the divergence in methods of treatment, hospital accommodation &c &c being so marked For metunes, the British soldier is dicted, has bed, bedding, &c., provided in hospital, whereas the Native has none of these things

What do you consider to be the result of experience in the working of the medical and hospital systems as practised during the secent operations in Afghanistan?

Sorgeon General J H Ker Innes British Medical Deput-ment, and Princ pri Medical Officer British Forces in India

The medical requirements of the Indian military service are peculiar, and in some stations there may be no ulternative but to perpetuate a modified regimental system But the arguments in favor of that organization appear altogether to lose their weight when applied to the altered conditions of a body of tioops biought together for active service, and the transfer of the perfect of the p

every detail as many times as there are separate regiments and other marching units

versy econ, so many sums as serie or separate regiments an other intermediate.

The descircts of a medical and hospital establishment accompanying a farce on active service are manifestly that it shall be efficient that it shall dispusse with needless re dephention of stores and apphances, and that its transport shall be reduced to the lowest mad, consistent with officency. In these respects the regimental system curnot compare with a consolidated one, and in India the arguments in layer of the late-runed arangement passess the greats weight, because the sin army base putal corps, as at home, specially tenned for rehering medical officers of a mess of duties of an extra-professional character, the carrying out of which necessarily withdraws them from their legitimate work at a time when their services are most needed

The subordante medical department is exclusively unalray to the hospital (professional) functons of the melical officers, and takes liftle cognization of the collateral duries follials at home by rimo of the army assistive orgs. As I have elsewhere shown the leading advantages of a consolidated system consists mainly in a defined purpose and method in the strangement of deta is. Its objects are specie counts mainty in it common perpose and accessor an in-antigenesse one of a 12 colorest and to employ of selected materials, daily arringed, to appropriate methed follows and subsequentles to postures where they will certainly be most needed in a settled watering, etc., to seek, methed claims and hospitals instead of it be brilly men of regiments and bytteness, and not to wrate skilled metheal labors, or to encomber a moving column with nunceesAppendix IV 1 (860)

sar maned me to whether the e con thof stop on s and thust be ramen band that his the descolor our led men econ es only occasionally need the choose remember at the internal and the

quant t for vhel pov son listole m de That Inny n ance only of any need to the end I priticult—that of tamport—a left the street or econe y of a can of tifed to pinto e tof any mentitions tasy in suborn I append the follow git to be add on the A may like only no.

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believed could best adapt itself to the requirements of small units. It was this impression which led to the retention of a modified regimental organization in the Kuram and Kandahar Divisions, where its continuance was also promoted by the circumstance that this was the authorized system when the force crossed the Indian frontier, as well perhaps in some instances at least, as to an imperfect acquarntance with the details of a new principle and its adjustment to the needs of a small unit

When the precis of field medical service was drawn up, there was neither time to shape it in every particular to munifold necessities, no did the requisite organization or material cass for anything approaching the adoptive fulfillment of the design in view. The eventing instead and organization and to be adapted perforte to the work freely in hand. Under encounteress so advers, it becomes a mitter of surprise that its soccess was so pronounced, and that its northing, as evidenced by the reports of the medical officers which have reached me, was so efficient and satisfactory, that it was subsequently adopted from choice whenever hostile expeditions were interpreted and notably so in the Kuram Force, where it had before remained to a great extent in abeyonce, when a forward much towards Cabul was in contemplation.

I unheartainedly reply, therefore, to question S, that the principle set forth in the pieces of medical arrangements has received a satisfactory and sufficient test, that it did practically accomplish its design , and that, where it failed, the causes of its failure were apparent, and were clearly not attribut-

able to defects in the system itself (vide reply to question 10)

Surgeon General J F Bentson M.D., Indian Medical Depart ment

I consider a chief lesson derivable from experience during the recent operations to be that every force taking the field should be accompanied by the steel and block for base, intermediate, and field hospitals, that such establishments should not be left to be extemporized when the hour of pressure has arrived, but that the entire equipment, both in respect of person et and materiel, should be organized in advance and accompany

the column is such form that on the ordin being issued, "for a backward," it should be possible, within a very few house, to have the establishment in complete working order. With reg in do such beginds for Nature trough, I can speck, most confidently that they must be independent ellogecher of the very tiny equipment that could possibly be contributed by regimental establishments. To trust to such a source would be simply to invite failure, by destroying the regimental provision for the sick and wounded, yet failing to supply a suitable substitute

Moreover the very ramon d'are of these hospitals is connected with the mobility of regiments, a circumstance impossible of achievement if corps had to carry with them the equipment of such semi-

stationary establishments

There have certainly been most serious compluints made of the utter wretchedness of the Native soldiers when thrown in numbers into one of the so-called general hospitals , but I do not personally consider such at la to be necessary features in the system, but to be due rather to the unperfect manner in which the attempt to work, it has been made. Bricks cannot be made writhout starw, and no medical stid, however their occasion, and the stide of the star occasionally in about, without having at command every requirement of effectively made. towards seeming the comfort and conteniment of the patients, unless the hospitals are properly found m bedding, clothing, and sufficiency of attendants

The Native regiments were ordered to take the field with sex months' supplies, and to secure them

agranst accidents a further provision for three months in respect of both commissariat and medical

store depuitment supplies, was held in readiness

Cases contuming them were prepared here, where the severe strain was less felt and after being recurately numbered and addressed for each unit of the Native forces employed, were forwarded to the commissari it officer at the base station of each column, for distribution to the medical officers conoverall, or receiving from their acquired to the state of the control of the principal administrative medical effect. The cent causes which melant offices represent the principal administrative medical effect. The cent causes which melant offices represented from severing those applies upon a emph represent on only was very good, and we much appear stud, I believe. Bach case contained several theoretic pills of approved constitution, and lost sated to the admends the unong the followers, in Linemachies a body, by the packed efficiently, is ablest extenting much laker open curp open curp establishments

The return march from Afghanistan does, in my opinion, strongly enforce the view of the absolute necessity for regimental hospital efficiency. As complete a division of a force into its comamounts accessed on personal and applied to applied by the designment with study or a soften size of the first of the study of the designment with study or a soften size of the most formaliable enemy—feelone,—is show one the deverable and be extremed if regimental hospital efficiency he been assured in the attriment of the general hospital system. In the to many in-stances conclaims are formed upon insufficiently tested. Of this, and it would be time allisations of the prompting of one one rested upon the first of the Kilybo columns, which had nother six has represented to me one rested upon the first of the Kilybo columns, which had nother six also remained to the columns of the six of the study of the six of the si wounded in such numbers as could have fully tried the endurance or success of any arrangement. The Kuram column was under the administrative medical control of an officer deeply impressed with the bolief that everything hinges on regimental efficiency, and I believe the minagement and success of the medical department with that force were such as to relieve the commanding general from anacely and to secure his commentation for complete efficiency. The workmen after all are the chief factors in the problem, the able men wil succeed, as such as the feeble will fail, under any system, however impetite in the one circ or unchallengeable in the other.

Dr G Smith MD, Surgeon-General Indian Medical Service Madras

From the secondary part played by the Madras Native toops in the recent operations in Afghanistan, the available information is necessarily recent oper mous in argument, the method officer stretched to the B and D comprises of the Madres Suppers and Miners, has submitted a valuable and practical report of the multiny and medical experience of his charge, and from that report I select the following items of information The

field medical arrangements were made speemlly applicable to British troops, the principle being fol-lowed as fir as possible with Native troops with regard to easting regulations. The sets of British and Native troops were to be treated separative! In the press draw up by Surgeon-General Lines, c z ,

the Francial Moderl Officer of Her Majesty's British Troops, the hospital expranation was to melande divisional field hospitals, divisional loves bosiniths, and are to dip for The principle of the field hospital being "to demonstrate the column of all unnecessity importances and intransance, all cases not likely to recover speedly should be trussferred to the lower of operations." As regards the British toney, the pumples are affilially seeding up, to fair exercal recovers it are found may sale to prince executed into the field and hospital system extends the Nation regiment hospital stage—the field hospital a sistem extend on the time British force, with a sweed gas to the sole of field hospitals adopted by the Nation force. In the month of Leiman Dr. Shithoga regime that field hospitals adopted by the Nation force. In the month of Leiman Dr. Shithoga regime that field hospitals adopted by the Nation force. In the month of Leiman Dr. Shithoga regime that callengs is an intellect to express a field hospital force, with a success causes, zone specified the effort dut not prove to be ultimately successful. These hospitals were not popular with the spars of They were, forecasts, and it they had been fully expranded and well we deal to obtain the time the place of regimental baportly and several a visat moment energing of these can like pital tents." The results of expressors seem to show that it is newpoleous to has two visions of accessed required seems to be one which, with unit, in eventuals permits, it the vision time, come duffer near ranner detains, recentated by the prequisers and precludes to the recoverable of the frequency seems to be one which, with unit, in eventuals permits, it the vision time, one duffer near manner datains, recentated by the prequireds and precludies of the first of the contract of the second of the second of the contraction of the first of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of

The report further shows the absolute necessity of living truncal, silled and properly capped in here of untrancel, unskilled, and finish; enquired herens, and servants of livinds, such as second under the force. An array hospital copes reports to be a necessity. The whole question of the nucleal agrae virtion best fitted for Active frops taking the field domains full and careful considered on Such angress to me to the prominent lesson which cames from the expense of recent multiper operations.

tions in Afghanistan

Dr W G Hunter MD Sur geon General Indian Medical De postment, Bembay I have no data on which to bee an opinion except as regards the base height at Sall ur, which, during the time it existed, fully met the object for which it was intended, both as regards efficiency and economy in working

Dr Colven Sm th Deputy Surgeon General, Indian Medical De partment Madras I have been told that the medical and hospital systems as practived during the recent operations in Afghanista amswered furly well

Dr J G beans Deputy S rgess General, British I over Meazut Cir cle

My handledge on this mipped is restricted to one of the column engaged, the Edward, Perbury 1 feld Tere, or Which I was the principal matical officer, in it the field inspiral system was adopted for the European toops in evel secondance with the institutions and rules had down by the Surgeon General, Buttoh Terop. I be her all the moderal repuments of the company were failer, when there is seption, it was economical in personal, stared, and expensibly in transport General and commanding others were which by it from exponentiality and early, and the solder, such as wounded, was pheed in whether maximum than her work has been an exemental inscript.

Deputy Surgeon Ceneral S C Townser it Pr ne pri Mod cal Officer, Kuram F eld koren whether position than he would have been an argumental hospital.

I was not present with the Kurum force during the cold weither, when the only sealers operations of the campage were carried on Maria (present his cold) sealers in Apply, the regimental systems is the first the cold because in Apply, the regimental systems is the first considerable the field because y stems should be included. Itself the field because y stems should be included. It self the field because y stems should be included as the sound that the field his considerable in the field most ready as the self the second of the corp solerable for the drawn common, and model to meet the people of each stem that the second of the corp is desirable from the drawn, and model to meet the people of each part to the second of the corp is the second of the corp in the second of the corp is the second of the corp in the second of the corp is the second of the corp in the second of the corp is the second of the corp in the second of the corp is the second of the second of the corp is the second of the second of the corp is the second of the second

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S geom M j C W t Army Mode D mar m t 13 h Hessars

That the I se and field losp tals of K run v llev force worled on the generic system and e ed admirably that there was economy and give erieffic ency than satt. The with a you erin ethod

The general of tal system commends itself in vano's ways and

the late c mma en l s p o ed its val a

If there s a stress of wo k-e tler sick or wounded men there s a la ge staff—tle wo sevenly d struel nd dealt vitl tonce by d seneumbering the hospital of useless stores instruments clothing ledding to T an port was reduced by more than half

If en as the he pital was formed as ctions se f contained t could act Storetic or a section could be eached and march at a hou s notice with med cal officers establishments stores tents transpo t com

How far did the existence of two medical departments Br tish and Indian prove disadvantageous to the efficiency of the medical branch both in administrative and executive work?

m Ind a.

So go a O norm J H K lane
B t b of D parts n and
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I n field a Office B tash
I always a norm of the order of the tle lute e.mp a lessene l by the pronume to each d v s on n tle fie d of one med call cal selected nd se m nutely f om e ther serve e to

It is true that it was found no sea gray to do w the larger pe toon of such officer from the Brit structure to the true that it was found no sea gray to do w the larger pe toon of such officer from the Brit structure to because the I dan lates included but a gray for who had our or mapping opportunities in the peet

of serving with British tree s

Nevertheless frequent efe ences we e necessary a d these had to be m de sometimes to one and sound time to the of er int of the ellipse can be the manifest of the state of the d v del a thorsty was this sa chone l which might at may time through divergence of opin on have become dange ously of structs e

It was due to this mon my that two systems regimental for Native troops and gene all for E ope ne obtained and that the general us of one I own g tell by the Su geon Gene al B tsh. Tore s on whose advice the Commande un Ch of depended and on hom the responsibility for the effic ency of the medical ir ingements especially dejended could not be made implicible to Native

Moreover the Surgeon Gener 1 of British Troops although present 11 the field and et ely Moreover the Surgeon Gener 1 of British Troops although present 11 the field and et ely and/over we suggest team it in this a troop statement present it in not tan at a supplied at any good are re-meaning for determine or the fight for good six as one or confidence which is cover as no control over make to effect of the loc foce no over the base lot talk for Native sold are yet there and by marine at differently support read red by if of five dis sever export y in the case of the 1 so hosp in 1 Restorant $n \in \mathcal{U}$ at an (1 + s) = s that that and into varied effective serve on No d d t s a py soal s $s \neq b$. The start on that of the support of the suppo is the the third was all to breade effective error. No dut is a pyeard so c_1 to "disturation, for Surgean Gray of the I dam. Under the Department who are now call charge, of the Dax to section of the Beld hosp in leaves upon any unique and of a generate two rate in each one of the Lau opean feld heap. If one the Dax may not go the end of the camp gas peop to The Nature r_2 must be I June out in home and of effect to each no depot less the assertable led. We can to for the left gree by the bay opean field loop the look be septor if lung in the Many land timing to to cut from D is the each of which was suffered turn by Ag in between 00 and 70 Λ to c_2 or c_3 is a special contribution of the problem of the problem of the problem of c_3 in the many contribution of c_3 in the many contribution of c_3 in the first problem of c_3 in the first problem of c_3 in the contribution of c_3 in the first problem M to Dr e of the B trush server—hack was suppol at fents mole as a nimed ca com forts from the Lunque n field losp fal and S geon fina; alis that at Dd a the hat e so de s coe all mode 1 ad from the Lunque n feld has pet lunde S nagron 1 yo Brati d that a Jell ah 1 the N two solutes ett bet ud by the comments me m, on to Gandan at. a o dependent o the feld ho p tal in cha ge of Surgeon V jor Porter

Surg on G era J F B a u nr nilau Moh Depa ment

To each separate column of the forces in the field the e wis but one p ne p l med cal office und thereto e under the suppost on the the h d been lay y selected and i d sificent framess self ch nee n stot clurecte fo the position there ex ny sho l h o be n io

struction of services in pactor to the care to body of its mod on a structure of services in pactor to the care to body of its mod only two been its mylect open its did not been tis mylect open its did but of the second its discoverement of Inda the pure; I med oloff as a lodin to g of the mod ol administration of the force to no of or il in to med clost as slown we go use mone or meanments on a to not on the charles of the come at a general and personally I from the fst cades over for male charles to the stand to the look of closes in a go e sade extend with complete med all all to ty and the leg now have a suffice ney of med cal subor in test college ones estimates of the demonds of sr co they are e I simflue cod by no other consideration if an my lower to collect and supply them

m suffic ent numbe s Tie Go ernme t of Inda in letter to wisk C a ned from ile t ee oys samp t Laho e on

to 13th December 13 compressed the hope as to selly but the girlt to enter a theorem to to 13th December 13 compressed the hope as to selly but the girlt to enter a the expect on to 4 to 6 force do m strat o a decect to o till loyally even themsel est of rice tile pile after east if no make they cope into and I same est be en from 16 a same of the sile of complaints by or entire officers of the Indian series and the heavity acknowledgments of the soil

and energy in the reports of the Bi tish administrative officers, that no friction occurred which we due to a narrow and in becoming jealous; between the two service

Two of a trade man proverbilly differ but I would from hope that a both of chertel gate stor of men would not demean themselves by displaying sentiments of pealousy in the rount discharge of an imperative pullic duty

Surrean Co emil C. A. Comion note pai Noberal Office. Let h love Malra

In the hope of belging on this inquier, I remark that through out the empring of the mutins the exclener of the d partments was in no was displaintneeous to the efficience of the mode-t brunch both in admini tradice and executive woul, but that in several re peets it really conduced to both, as officers of the Inhan

medical service understood Native soldiers well and worked with them in a manner parfect, suitable of a little energy of a state of a manner with that a war of the Panjah, and before that in the Cv alore comparing, the same extent would will, Judian is when differen had change of feld and re-serie loop risks and in the ers of the ways of 134d, 1816, and 1818, nameer max camage on relative measure merchans amount over our case with of 1819, 1819, 4819 1819, the medical origination of the ramus categories and method conducted, and nell conducted it officers of the Irdan service. With regard to the matter, I mixed had changes successively of tree obficerest field forces, namely, that commanded by Su T II I ranks, and sat sequently that by Su I do and Lagard so that in respect to them I give the r sults of person despetience in the held Dr W C Hunter at D S r geom for er l In han Med al D partu it Bombay I have hardly any data on which to express an opinion on this question. The medical officers doing daty with arguments belowing

to this prosidency with the Kandibar column have been entirely placed under the orders of the principal medical officer. No cm plants have been made, and I have no reason to suppose that at alling has arosen disadvantageous to efficiency either in the administrative or executive work

Dr. I Gidbans Dp tr 5 mens Ge eral Br tish Loroes Mescal

I am of opinion the reply to this question is for the consideration of the heads of the departments

Digate Street Control S. C. Term and Lancy I Medical Offi for him mildle lotte.

No disadvantage was obvious to me, and no hitch occurred in my relations with either So far as I un aware, the existence of the two medical departments his not proved dischantingeous to the efficiency of the midical at

r ngements of this force either in administrative or executive world but I doubt whether, as a permanent an ingement the supervision and control of the executive oftens of our the extention by an idministrative officer of mother will be I and to work smoothly. I am of opmon that

rules affecting A time subordinate e tel boliments and I fear that the members of these ciable h ments will ruffer under amalgamation of the administrative grades unless special increases are talen for their protection Personally I am not aware of any disadvantage, as I only leeded to one head, the principal medical officer of the division, but from

Carreen Major I II Parter la e in Melical Clarke of 1 ll II 4 l let Diaze on Is harrir Valles 12 ll lorce

of rection I could see it was a great disideanting lineing two signate medical departments, both working for the rame and, outh having certain daties which endd have been performed by one head will greater a rid his fried on cramitation. When his the exquestions I mean that having a Principal, Medical Officer from the British server

to administer to the representation of Native rubbary ho jutile, it caused irribben among the method city is cf Naturer, and also who do the posity up a flex following yet so dot that a risb do do Anter traje. The series could have the or in this, dot do not be series could have the flex or in the could be principal mode. In h medical d attended done steem et a Berta h troop Were ill medie dellicer of one d put in at we helic must running, the could not occur

A coly (from the) t t Dy of 10 Hz

I make mean that any die boufare recented Int all marker trees died eller effectt i service honorer ! presents I manel og of I th Both har I Native treats, har a dl that is more of their requirement ?

many of them were wholly new others either old and infirm, enfecthed in health, or young and immuture. Clothing was very t thigh sensel to them, and in the meantume mury persisted from copessue, and instead of a body of enterling selected men fitted for reduces well, a large majority of them had never been medically inspected at all. The consequence was that there was great sickness amongst them and they thus often proved an encumbrance 1 then than a help

Such is the general feat of all the reports are encounterable from medical officers, some of whom have personally spot on to me in strong teams on the same subject. Moreous, that we no properly organized staff of non commissionable officers on the fact of the physical labor. and worry entraled upon them by mustering the kahars and personally superintending then work. Accoding to existing urungements, the medical officers had ω_0 the base of much to began than morning it is sat least as hour or two before seasible, in order to get the such much of which the troops . This occupration has been represented to me as a false and humilating postum for medical officers to

occupy.

A large proportion of the trunsport animals, camels, and make approparated for hospital use were feeble and unit for the work, whal required the strongest animals. On many occasions camels were necessarily abandoned on the lines of march and left to stave and the mortality amongst them was enormous, the hospital equipment (conveyed in camel tains) was too heavy and unsuitable for cam monatons, the inequal contributes convergence ment unably the cast of the substant life ar-praging it a difficult country. It was had down in the modest precise that "the whole of the suc-erings, will be under the orders of the principal method officer, who will be tabletter it according to the 1c principals of the service." But this true are always found in the tabletter of the course of the true true method in the contribute of the service. transport of a daysson so far from being in unfained apart, was constantly diverted to other was, the standard on a unissees of a soun using minimizing april, was sound and weren to mist week, the sick ownerse, both in the Quetta and Kip her relumns was elsewhere exprenented, and bespital tents and equipped in the mexture of A unduler were returned to the discissional field bespitals in an unservice the state. The divisional bespitals in an unservice the state. The divisional besigned of the Kip Litt column was often regarded as an encumbrance of the column and of the column and th and was relegated to Ali Muspil, while the main strength of the division was occupying Dal v having

an mercessing sick list without adequate merces for filter conflort or cure
to notify the notified be esty but sumcossary, to multiply such unistances, led it suffice that the reports furnished
to thus office abound with these and sumina striments! Much of it may perhaps, be recovated for when it is remembered how great was the scarcity of entrage, and that a comparatively small amount of transport, when aggregated with a divisional hospital formed a tempting but, whole the much larger amount davided amongst individual corps for hospital use would have been more likely to escape observation allogether as belonging to regimental equipment and therefore pheed beyond the reach of extansions into ference

Dooltes however well adopted to the plants and a country where there are roads of any kind, are, generally speaking, untit for frontier mountain warfare, they are large and cumbrous for steep recent and mountain tracks with projecting boulders, some of the dandies (1 animock dandies) used for Native troops are equally unsuited for the transport of a nounded or sick soldier The Loosbu dund, however, proved by for the most suitable, in handmess and lightness to such service. But however important the adaptability of the mere vehicle may be the efficiency of our sick nearons—and necessity and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the clienter of the state of th pushed by hand or drawn by a pony, in principle like the costermonger's cart with a light removable passed by mist of turned by a fewly, in juntages like use conservations of the techniques where the contract of the contraction considered necessary with a fighting column might be materially reduced with positive advantage, the general introduction of light and simple forms of wheeled transport for cuntonment use, in supersession of doole curringe, would effect an appreciable saving to the State

The position of a divisional field hospital, or section thereof, on the line of murch, or in cump,

does not seem to have been definitely settled nor does the requisite guard over it on the line of much, as in the case of commissarrat stoles, regimental and other baggage, appeal to have been considered

It is beheved that the adoption of the following suggestions would prove not only financially

advintagious, but would searce newseed differency and the health department, should be I All sed envirage, and in here everything apperaturing to the health department, should be plended afthe desposed of, and be denicely under the contest of, the prancipal methed offices, with whom the responsibility for its officent maintenance should rest, and from whose direction at should never be diverted except by the special order of the general or other officer in communication

II That the doolie bearers now separately employed under the commissariat and medical departments be consolidated, with a view to ensuring their instruction in necessary drill for a given period in The men so tanned in cantonments, on taking the field, should be replaced by others ereli yeri

employed temporarily

At present the doolse-bearer establishment is divided into two parts, employed and paid by two separate departments, set, a permanent establishment attached to corps for duty in cuntonments, under the orders of the medical department and laid by the pay department, number ng about 1,000 men and (2) the moveable column establishment of about 4,400 men, employed and paid by the commissionit department

It is proposed to similganite both medical and moveable column establishments of doolse beautis, place the whole under one department, provide one uniform rate of pray, and fram them in times of prace, in the district required of them in the field. This could be directed by a uniformly on the statum of most every quarter between the beautiful (where the training will be conducted) and the body control of the statum of hard quarto centres of the establishment. By this arrangement every bearer might go through a short course of training periodically

A corps compri ng of 5 000 or 6,000 truned dooks better would be sufficient form trun of shout 20 000 to 25,000 men, their places being substituted by others temporarily employed in crater

ments during war To make the hower corp efficient without extra expine to the State, it would be desired to

reduce the number, and utilize the saving effected for clothing and halding on held service, with

quitter, &c, &c, under the rules accumended for the sum desputal corps.

III The organization of an army loogist living corp, which is should never did some of the Langers of loocement, will instantially seek in rulement lies field corporation and true per more correctible, which will also he much advanced by the resoluting and reduction of field heightly equipment

Sargern Ge -1 J T Ben on 1 D. Januar Medical Divariages

I consider that the curringe supplied for the transport of the sick of the Native forces a as very well suited to the prano e though no doubt the latan his were very roughly manufactured, and not suffer after

The currage consisted of dooltes Looshu dooltes, dundes ad I spewdie, and in amount was quite equal to demand, but whether it was not in excess of rigulation is cert unly doubtful, theist I am not aware of any authority for giving a regiment of Native infinite with a strength of 507-

Dooltes Loochar dooles . 16 Dandies 90 Karawebs 10 mus With a personnel of mates Doolte-bearers 200

which was the establishment of the 15th Sikhs in the Kandaliar column, equalling 53, 13 per cent

The doole herers were recented in the Pumph and Hindustria, the former el. slowing a wonderfully sogeness through the Hindustria, the former el. slowing a wonderfully sogeness through power all found, a better philosophe ceptile of greater existing, and make lee helde to seekness. On the long merch from Sukker to ken believe, only a single Penythe leaves was put hors de co will from sicknes

The only tricle of currence which seems to me to have come out of the orderl with complete The outer three water water water to the to divide measure to the to divide measure the Del of J et al Junio, which I have invested already and established and a property of the Durio, which I have invested a repelled yielder the notice of Concernment, and in ours, if a rather which and to the respect to give the gift. I then in effect to give the gift is been and out the most suice to the gift. I then it ended to life ever moderal read wags also as the rate to be the key to it was and will be tree, if and it is the control of the did chiefe, by an unfaint kind is lift by to if it in the new control.

It was urged on the long marche tow rds Kan labor that four bearers for each Dielas' Inches Drobe is too small a complement, but I there that where six on carry the ordinary of leg in the rose efficiently accomples the same data with the Bilet I of rose the rother is the same that with the Bilet I of rose the rothing empth is the movements of a regiment or force, rose than insufacency of carring for the sel or lant the shi talk always be exerciped for their country of at available in the field and then for I am unclined to al june amons we use a ritter time reverse of the structure in the feet and then for 1 and inclined to a feet rules in a part of correspond of the time and a second informer to the 1 feet file a ritter at the character of the country, contenting movel with the very some of majority the arms and the filed of 1 for la Theole in the information of the present of the country of the count sion for any healths, suntails clothed, well fed and sat electoris shell by of Antrodropy one rece in this country

r - Le - 1 !' 1 forday. Par pai Micheal OF Hau h loc Madas

I am unable to speal with regard to Afghani tin. But from expranced whine frame as more differed to a soften by holden pert for set and vous helither I have ever seen is the rounder of the proof so compiled versured sets by the Lists I have my lift on good sick madodic firming succes mirles. If nel tue a tlet li of buttle at Champion and Pari, on purpose musch In 1 has a

round I men in Franc' time gene modelens, carrier, a shock from month is the 1st page of mid-confortible of all will be to a since, in IL pack the preferred to the list handood. I man are stall regarded to the supplementation of the list of the list of the stall before the stall before the stall before the supplementation of the supplementation of the stall before the stall be helmpertle here reste commold to ech pare. The excellent hole of true plan id in der und test legals in Chapter VII of his book on Hamilie and Sergery filter.

Dr G Smith, MB Surgeon General Indian Medical Service,

So far as the patient is concerned, the most satisfactory of all methods of transport in time of war of those who are senously siel or wounded is that by doolie manned by a sufficient number of well trained

bearers The Madias doolie is too heavy

Referring to the subject of sick curring, Surgeon Sibtherne remarks "The munched a wooden frame worled with ration centre hung to a humboo by chaus with a cauves cover was the woocen issues wor ea with ratim centre using to a tempor by cerums with a centre cover was the partican supplied. It weights of 100 s with its cover, and is well adopted in the centrage of the sets, in the plants, but fin hill woil it is quite unswind. During the second Razaar capedition it was found that the principles shaped out of them when going up or down a hill, over empty it was easier for the bearest to certy them on them leads than awanging from the bamboss. The left in was found to be evally before and difficult to report, they had to be sent had, to the laves it Review to their anything done. Bond country tage would make a much better hed and could more easily be replaced. any timing done. Broad country trape would make a niture activities to the do could more easily be repliced when wom out. A head and foot board to keep a patent from alpung out are much required? Other muon suggestions are also offered. Duch company of supers and names was provided with 18 munchools calculated for 10 per cent of sols. If appears that many different patterns of doolses and dandess were in use by the troops. Dash company was also furnished with 6 bomboo stretchers deviated by Colonel Prendergast, vo. q. s. p. r. T lives stratches neighbat should shike each, "and would have been myslamble for carrying wounded men to the rear where doolses could not be brought up as during work in trenches — As they only required two men to earry them, fewer bearers would have to be sent under fire "

Dr Sibthorpe, in connection with the subject of beaters and their organization, remarks that that each munched had four bearers allowed and five mates were sent with the companies, besides unt com manness may not seaters known and ave mades were sent with the comprises, besides a small surplus to benerits to ever schoiness. "A very consideable proportion of these man hid never carried doubts in their lives before, and many were quite unfitted for their well. None of them hid recovered any previous trump." Amongst the bearers, sent with the K. Company, the only one who ave. bearer by occupation was the patty mastry, most of them being discharged cool boys, syess in I coolies." beare by occupation was the picty massiry, most or time nearly desenged cost onys, see in a context. Dr. Sibbergo an arrival of helium established a regular system of truining under the sum of a "much once dail," which included instruction functing the lifting, conjung and setting down of the man-cheel, the lifting, phong in the cohese a womended invo, and the easiest most lot the suffere of carrying him one different hands of ground. The near were found to be utiling to not, and to be taught, and some of them were subsequently employed at Lunda Koola it touch this Regul barers the same drill. Dr. Subhorqu'ed has practical suggestion to the effect that the 900 because horse on the Midris establishment should be put through a course of instruction yearly, and be taught many of among a secondariant scale to plus among a pricing tests, reparing doles, for "freely engite to have regular uniform and he thoughly under the control of the methed department for enlistment, prey, promotion or dischinge. They could be utilized in the hespitals where many of them would, with a little training, make efficient sele orderies for Nature trops

De Colvin Smith Deputy Sur-geon Gereral Indian Medical Department Medicas

I am unable to reply to this fully, but from the reports I have hed the seesy evident that a hostital corps is much required for the Indian army The commission theorem should be all dilled to their work during peace, so that in time of want key would be the brisis on which a transport corps for sick might be formed. This a sugges

on where a transpose corp and exercise the continues of t inguiste, is pleasure weight compared in 50 to 80, 50 the windows over? In Surviving any is on init service in the requires a head and floot piece the claims are defective rung element would be better. The cover should be made solf-supporting when the furnishous we removed, nastered of ration bottom, brend tign should be embed and headined self-cet, so that it might be used as a statebler, if much highter than at passon, it would be very serviceable for energing wounded men. The Societive dunky of 50 to 45 fibre was the best dangly in seg damage the campung, and has the

construct using to work not not tend to the season of the season of the season of the lead admining who that it can be used as not, but it requires a light over, and the curve of the lead should be strengthesed and more easily stateled. A vey useful bamboo stretcher was taken up to Cabab by the Adviews appear, note under the supervasion of Leaterwint-Clondel Premising and, not a contract the contract of the contract of the season of the season of the contract clonder and the season of a numerical This "make an admirroble stretcher for causing wounded man on the field to the other contracts of the season of the

first line of surgical assistance"

Colonel Hawke's suck cart is the best on the Madias side. The Madras suck rulway currage is good so far as it goes, but there should be doors at either end, so as to let there be easy communication with the currages when the train is in motion. Dr. Sibthorpe also proposes that cotton wagons be ventilated and arranged with moveable furniture so as to suit for a curriage for the transport of sick in time of war

Dr J Gibbons Deputy Surgeon General, British Forces, Merrut Gircle

My experience gathered in the recent operations is that all the arrangements for the transport of the siel were most inclinent and little better than makeshift, and that after the subject of general note bector that discounty and service uses suppose to guest a target in other not be service best more consideration. As a legalist the parameter, moting outline that be not worse. When the discount not more than 5 per cent all round being variable for cope Each recould not be obtained, such because the election of the control than 5 per cent all round being variable for cope Each recould not be obtained, such because defined in land of transite bereat; a manellamous lot of I this who

had never conned a doole, and cooles of all descriptions was got together (induced to serve by the liberal wage) from every town and district in the North-West and Panjah and sent to the front Commanding and medical officers soon found out that numbers of those so called bearers were unused to the work, untrustworthy on an emergency, and that it was necessare to put see bourers to a dandy or eight to a deely when occupied to ensure its keeping up with the marching column. I had the whole number, over 3,000, subjected to medical examination, amongst them were found halt, ma mail, third, lepers, and unlecties, fully one third were untit for the work, but could not be replaced if cont to the rear, and there was no security against the same men finding their was lack again as it was hout 10 per cent were found unlit in might seed inexpects, disease, and worn out, and if was the counted of the examinar, officers that of the whole, not more than office cent had been in the and om of acting a better prior to entertunment. A very certain opinion can be arrived at on the cul jeet by the il once of the shoulder calle ity and discoloration, which in some degree i illust to be found on the profe storal bearer

Is regards reacted, the versus forms of dooles and dangles were almost exclusively used in the let Division. Perhanar Lield Lore. There were a few camel kijawas, but useks, from too shell to construction, during the expension, curts to some extent were used for native stell followers

Of the dodnes, that constructed by Surgeon-Major Hamilton was fielde prine is convertible into a stretcher on the field, a very comfortable bed in his pital, and taking up much les place in test than those of the old pattern As long as roads are far, no made of caurage equal the do be in the safety and case in which the ick and wounded are borne but in many of the expeditions during the experition in the Khyle rathe use of the do be on precipitious hill sides and mountain paths was found maper to the and the dands had to be used instead

Of the dink, three descriptions were in use with the force, all were of faults construction, and numbers of them old and in had requir proved quite untrustworthy. During the month of Pebrury a few d notes known as the Looshru pittern, came to the front, and this number was it once and manning ish presented as the most of carriere of its kind, dooks or dandy, let said for bill word. I consider it should be introduced into general use in the service,—certifially to the exclusion

of all the existing forms of dunda

Pt the ruling of the Government of India, the sich entringe was placed under the orders of the structual officer. this was never those gridy admitted or sub-critical to in the 1st Daisin, Pelarm in Ind I force Some colonels of regiments and their medical officers looted on the sale currings as countrilly regimental, and absolutely refused its use for the conveyance of the seck of other corps on in unactive cases. The seck currings should be under the orders of one per so which is he be principal medical officer head of fransport or bend of commissional department. If brighthers, comminding officers, local commission to officers, regimental medical officers all lince control, or issuric contr. I, confusion must be the result

In a country where we also cast or is in the case of the last empragm in the kinder, where it is the return that it eld for each man it eld for each man intelligence are made in the first two which where there are, no woods or very indifferent oncy them now le a chi e between camel in I male carriage, but either are faults, as not leing generally applied le, its oull be death or fortue to truly received of sick or wounded to encould or by morals have come to the conclus on that in oper trans in India or the neighborring ecuative bearer currence in some form and to some extent must be retuined, and here the difficulty of efficients and at the same time reduced expenditure arises. If bearers are wanted for war, they must be truned and

ma ntamed during peace

Ditr Carron (caeral 9 C In lirepillaic 1020 c huppa Isblive

I am not aware that there was any neigh fathere in the arrangements for the trunsport of the sick and nounded during the operations in the

c house I is M to se

full but I believe to it is gone rilly inflored that they were detected. We is money other preparations for the prepared to more in 0 bill, the results of the central to the condition of the centre for the set and wonded we compared into, it was found that, although there were some 2 and down to rare estimated to the force, the large body if men was just with utilize nization of any lind, that a large proportion of them, it is heatertained on d of he for were simple to they who had mover lifted a dooler in their lives and mean were placed to be under the orders of the principal and it of colors. then we for the All threshed to the communerent department, and employed by it et the difficult statem from fluid to this below the convey one of stores and other well. With the year of transfer the e m n into omething life ord r, no main nower, available at Allhel were collect by a deciding at 1000 mill, indicate the cut of the collection of a medical effect with a smill staff. Na se none rian i aid ofters und r lim, who undertook to instruct thim in the mode of an in we record I men from the hell and other duties. Per c was declared shortly afterwards by er vali w eTeletts bewithert under good up resson and with a proper staff the efficience of the here on a hour could be vive or who improved. When a five of our mignitude is a list of t the two comes are a communication and an interest magnitude of the large and an added offer the office of the large and the communication of the large and the communication of the large and a first man additional and a first man addition ill muse would de il die late with a heory er recti nich the force Stould the fure!

molade them in the estimate of carriage to be provided and to supplement the beaver-carriage of the force largely with camels In a hilly country, impresticable for ambulance earls, the camel is the only animal which can be rendered available for the course ance of sick in large numbers but the riding mule, if farmished with a saddle of a smithble pattern, would form more easy carriage for sick using among a massles to walk. But not absolutely requiring a dode down to every course of we compens or so would leave the cute, insumed as at would eary any one patent, and a mulcier would be more required with nearly every mulci, but it would be chepter than the doubte or drawly with its eight or str betters, for whom food must be erried, and it would, I timb, lo useful and economial to attech nings makes for the campe of the safe to a force employed an hilly country in the proportion of two or three per cent of strength

Two kinds of kajawah chairs were provided for the conveyance of the sick on camels, one after the pattern of Biown's rechang from clair, the other a strught aim chair of common pattern it seemed to me that the latter was the most comfettable, others preferred the rechning chair, but neither was tried for any long journey. I do not think that the best possible form of camel-chair has yet been devised, the chars of both potterns that were supplied were too heavy for use in a mountainous country, each pair being in itself almost a load for a camel in the condition to which most of those belonging to the force have been reduced

Surgeen Vajor J H Porter late 11 Medical Charge of Febl Hospital 1st Drinner, Peskeuan Valley Feld Lorce

The personnel as regards believe was most inefficient, in most in-stances these men had heree cerned a doche of dandle, to which they were quite innecessioned, and from being body fed and of modifieron, physique were physically unlik for such rebour. This wint of physical power cused much meanvenance to the sick by their being roughly handled and extra labor on the medical officers, who were obliged to drive them hile so many slaves Proquently I have seen eight and ten

men staggering under one doole earrying a Direction and in the time the grant and con-sistency of the hills, it is to been found necessary to take it to peces, from mainting on the part of the latins to curry, it as a whole. The medical as negatifs dooles us as good as I have seen in India, some being perfectly new and of modern construction. He danders were of indifferent insternal some of their enums bettoms being completely totten. Deobes and dundles compact the chair fact transport in 1st Division, Peshawai Valley Field I does, but during the return match rafts, mules, tattoos, camels, elephants, covered backeries and engineer wagous formed part of the sick transport, but they were simply used for want of better, at the same time could not be considered justifiable, except in cases of emergency such as existed on the occasion of the return of the toops from Afghan-istan. The time has now aimed in India when I consider the subject of wheeled such transport should be ventilated Ruiways and good rouds have done away with the rice of kabus which formerly existed, and in consequence I am informed it is not possible to obtain the services of such men when required

I would therefore suggest except in case of mountum waifare, that light ambulance wagons be introduced or sheetchers on wheels with books and amons. The sheetchers might be so constructed as to be capible of I firing off the wheels, and by means of four short legs would answer for cots in

tents in the same manner that doelies are now used

These wheeled stretchers could be a means of reducing expense in contonments as in the field, as they would only require at very most three Natives to pull or push them along the read, instead of six lahars which obtains with each doolse. During the recent expedition in Afghanistan (1st Division, Peshawar Valley Field Force) the roads were suitable for artiliery, and would therefore have been resultant visity from loves use received were someone in thirmy, and vount conceive have been suitable for lady timelaness upon expelled carrying from into recumben position, and there or four sitting up, drawn by houses o bubbles. It would, however be necessary to unmaint a certain proportion of either doubles of bubbles. It would, however be necessary to unmaint an extension of the contraction of the contra warfure, and for this I would suggest the Looshin dandy, which weighs 52 lbs , and is well adapted want to when the state of the second of the pole would be set a be state of the set of t in Germany, I rance, and Austria, but one would have to be specially constincted for India, to admit of its being used as a cot on the line of match

Surgeon Major C Martin Army Medical Department 13th Hussars

Camel Lapawahs I do not approve of for either sick or wounded men, the motion of the beast is tortuse, and he stands too high for a man whose nerve has been shalen by recent or severe injury to be comfortable on, mule excelets are better But I know of nothing so good as a doole or dandy, and those are preferable which have not too much from-work about them, and which a mistry or dools bearer can repair with an adze or auger

Some very ingenous dockes were on trivil during the late war and failed utterly on this ground that if the least thing went wrong they

could not be reparred, owing to the fittings being cast iron

Wheeled carriage of course is not practicable in a mountain country As a rule, the doolse-bearers were very bad, weakly, and not accustomed to the work

11 Will you give the Commission the advantage of your experience generally towards improving the efficiency of the Medical Department, and of reducing expenditure either in personnel or in medical stores, hospital equipment, &c , &c , both in peace and war?

Surgeon General J H Ret Innes British Viol cal Départ neuf and Principal Med tal Officer, British Lorces in India

Although the results of experience were indubitably favorable to the advantages of the medical and hospital system practised in Afghunistan, there were several most important respects in which the

(STO) Appendix IV

working of that so tem was very mosmple's or at least expuble of mapricement. This work ranged under one or a her of the following heads, and they will serve a allustrations of deleting

arrangement and organizat on which require to be a medical in view of any fit are eatily uga

(1) Unpreparednes—The precipitings of irrangement, and the late dite it which Given much smellon was accorded to the Sungeon General spaces of and the late of p. . ve ted in the head of the medical service to curs out promptly and devidedly, only curs re ponsibility, such arrangements as he deemed need are (2) Inefficiency and improper distribution of transport, and in idequate control exercised and

it by the principal medical officer-(3) Ah ence of proper extra profes social aid to effect of the medical service, in rehearing the of duties which mostel their energies on work that did not belong to them and a perof the ome, want of proper assi time. for the principal medical others of drive is

to rebear them of clarical work and other details (1) Relative il-ence of field equipment and able for a compagn

(1) Wrste of energy re ulting from not providing medical officers with hor es (b) Ab once of timely warning of the modical service on the part of the military as to oce r

rence about to take a lace (1) As regard the precipitanes with which the medical arrangements had to I made, and the tardines of the Government in groung its a cut to the pameiple set forth in the Medical price I

would call attention to the correspondence that I as taken place between the Government of India and

when definition to the entrepondence that is a laster price desire a two constraints.

Surgeon General's No Olford, and 21th Seydember 1875, to Adjutant General
Military Digartment No 785, and 28th Seydember 1875, to Adjutant General.

Surgeon General's No Clien disked 28th September 1875, to Adjutant General Military Dep riment No 165k, dated 1th October 1878, to Adjut out General

Surgeon-General's No C1110 dated 5th October 1575 to Adjustant General Military Department No. 118k., duted 18th October 1878 to Adju ant General Military Department No. 681K, dated oth November 1878, to Surge in General Military Department No. 706K, dated 5th November 1878, to Adjudant-General

The troops tool the field on the 21st Vosember 1575 for the utital on Ah Mu jul Government exection to the system set forth in my instructions having only been obtained on it. Sith Neverol it 1875 and in the men tune General Budduly his Division had taken the field. And throughout the whole of the either part of the operations the same furdiness in a senting to the most of initial dial characterized the action of Government. Instead of leaving exceptions in an indicating a second as the troops were formed into brigade and dissions, operations 1 id actually commune 1 in 1 com terminated, before the sanction of Government was received to some of the recommendations of the

l or example-I -I mplorm at of a Native eather with each drive on for keeping the surger has francoitence correctible condition and saving the cost and delay of sending them buil to the princet in dual dept

(Merra Merr) II - Lormation of the Moultin depot hospit I for the recommodate not the sick of General Thildulph and Stewart's day consequent to their earch to a well as for the sick and invalids return

ing from Quitti III -- I crust on of a book of the Quetta (in connection with the working of the princip)

of the day early 1st d) for the remmed to nef the sukef the advancer fire

The important plant per constraint and the properties of the state of the properties

tin of the point all miles or of columns at empelled to meet this design At the Mr and it a behave I that the principal medical officer of the 1st decision had not read office the appart operfort intertween the whole for a support the tear Dr. Her its, on a manual to held hope of the Quetic force, believed to the set in to lapure die haf live fel in else ment lennotwithstanding that it was proposed in the Afghan campaign to combine the office of sceretary and sanitary officer in one

(4) The cantonment medical equipment was wholly unfitted for active service, and hence it was

necessary to procure from England fitted panniers for the conveyance of medical stores (a) It is absolutely essential that all medical officers on field service should be mounted on account of their duties requiring them to proceed to distances at any moment, and it being of the utmost importance that they should not be worn out by fatigue at the and of a march—as was the case for example, in the return-march of the troops furough the Khyber—for it is then that their services are always necessary and, very frequently, most needed This provision has been made in every European army

(6) As illustrative of the absence of tamely warning for making the medical arrangements, I

would cite the following -

Deputy Surgeon-General Gibbons, Principal Medical Officer, 1st Division, Peshawar Valley Field Force, referring to subjects requiring rectification in future, calls attention to ' the necessity for giving the principal medical officer timely notice of movements, and more especially when troops in any force are sent out on military expeditions involving any protracted absence or probable contact with the enemy. Otherwise it is impossible to make the necessary medical and surgical arrangements, and regumental resources may be subjected to a strain they were never intended to bear under the field hospital system

"A large proportion of the troops of the 1st division were detriched for service in the Bazzar With the exception of an order to send dandies and bearers to Bazzwal for service under General Tytler, I was left in ignorance of this more, received no information of the starting or composition of the force, nor was I cilled upon to male any medical arrangements, otherwise than what is stated above. A working section of the field hospital should have accompanied, as one did with the troops of the 2nd division, and had the medical and surgical assources at the disposal of corps been overtaxed, I submit it would have been through no fault of the system

"With respect to all other expeditions sent out, puniting or for reconnoting purposes, I make the same statement. I had no official information regarding them, and often was not aware they had

left camp until the following morning

"On notice of the affan at l'atchabad being received in camp, a section of the field hospital was

m reduces to state at a moment's notes, I fuled to obtain the possessive sunction to send it out? "
Tatchiang goes on to aid, however," that there was happily no neglect of the wounded at Tatchiand Three method officers were on the field (the force was about 500), besides method subortinates The wounded-some 30-were attended in the field, despatched that afternoon to Jell-lahad, and

arrived in good care at 6 o'clock next morning"

The position to be occupied by a field hospital, on the lane of march, in camp and in action, requires to be settled and authoritatively laid down, as well as the provision of a mulitary escort and

The foregoing remarks have a speeral bearing on field service, and as regards improving the efficiency of the medical department generally, and economizing expenditure, the following summary statement embodies the principal proposals The efficiency of the medical department can be improved by-

I -Vesting the administration of the army medical service in India (British and Indian) under

one head II-Placing the upothecary class of the suboidinate medical department under one surgeongeneral, and mercasing its effective strength

III -Transferring the purveyor's department from commissariat to medical, as noted in reply to query 3 IV -- Organizing the army hospital Natice corps without juny unnecessary delay, as the basis of

the scheme has received the sanction of the Home Government The difficulty of getting lossinal servinits under the present intes of pay is duly increasing, and complaints were greened about give left. Afgine was as to the class of mea supplied by the commeasured deputinent. The majority of them had never served in an inequity, could not made up a sick man's bed, much less nuise him, and cooks were employed who had never entered a hitchen before

V -Increasing the passed hospital apprentice grade of the subordinate medical department from 60 to 75, and making a corresponding reduction in the unpassed hospital apprentice class, so as to avoid additional expense to the State. This step is very desirable in consequence of the authorized numbers of the efficient grades" being much below the

 Apotheorry
 Ass stant apoth corry Passed hosp tal apprent ce

requirements of the service, and the pre-sure of the numerous duties in connection with the sick, with the extra strain in times of war and cholera epidemies, being such as to seriously affect the health of the members of the subordinate medical department (see leph) to question () This matter was

to the State, owing to the abolition of brigade hospi-

The state of the subordines the state of the subordines going sects as a seriously state of the subordines for the subordines in the subordines of the subordines stated a state of the subordines sta VI -Jt is also desirable that a slight merense Writer should be made to the subordunte establishment of British hospitals No expense will be thereby coused

Auroes Hourstal surroants.

tal sergeants in India. (Copy of correspondence herewith)

Reduction in medical expenditure by-

1--Rooper's continuous of the subsidiaries maked department [A copy of correspondence on this subpect is annexed, by which in estimated even of over Rs 2,50 000 annually one be effected, and a further saving of Rs 1 50,000 by extending the system to batter copy. Total estimated saving Rs 4,00,000 annually 1

Aprendix IV 1 (872)

m - Medical stor. On the fermation of general or station he patal, it would be no line prosents to leep up a large and coally supply of surgical in truments for each corp unit in the

III - Ho rifal equipment. By reducing the scale from 12 to 10 per cent of sid in all lar-

station, as not all in the right to query 6

10 —Hill diputs Thesas el affed under two heads—

1 da , for 200 men and upwarl≤ 2 d ela for under 200 men

At proceed there are it for tiches deport and I second class

The seed of the former are posterior of the strength-with his varie from 200 to 550, repolar to applied to commodate news uniform and length at field that the empirical could be high to a matrix we common to make a minor in matrix 2 structure in the experiment count of matrix is the second of the first should be regarded that the department, but he is were a function that a name of heighth experiment greaters are former to the second matrix greaters. The second matrix greaters are second matrix greaters are second matrix of the second matrix greaters are second matrix.

so doing v - Carriago of medical stores on line of march. Under existing rigulations each a 73 has a do in tistore of no die il and surgicid e juipment accompanying it The bulk of the bery thould be left behind for the use of the relieving corps is in the case of ho pital confluent A medical committee (now sitting for the purp of urringing the details of this scheme

at -Some saving together with indicased efficiency in the subordinate savice could be off tol be ending unper all he paid approximate to colkige direct instead of uniting three or four exin a military I gotal. This measur was also negatived by Government, but I am still of opmos that the prope al should be carried out

In the procedurg remark I have confined maself to sample and practical detail having a direct berring on the general we fulne of the me heal a raise of the present constituted, but the question

under right las a much water + pc The school naturally ranges at off under two heads, masmuch as at deather on the me head a rote.

in the country to fiddell the requirements of the rightery and evel population I - I nder the fir t the sulpe tas strictly erromscribed within the limits of an improved and

more common il rid t re organization II - Inter the score it make it tes a consideration of the exp diener or de includes of established lishing an improved administration on such a framework that the enal of redshing serve h Il distinct si mid be rinkered reterleper lint so that the member of the civil in the the might form a receive to the military widthly in cases of unusual strain, so has a t, and of the other hand, the military would be equally available many extra present to which the end

mode al service me let be subjected in time. I famine or other need.

I come other standy intallies a unself as a paintage and such parable principle that the makes a mode of should be also, there he occuted from the civil medical service that the two militars are beorange a construction, over a secretarion the data member agree for the two matters and a received health for eld rechter mill real lead a real it billing a cachine direction of the cut let he the latter or each of the cut of the c

in thing probable and of the content rundle for the probability of the relation of the relatio for him with remainder the histories of the control of the self-for him with remainder the histories of the control of the self-for several or histories of the date the breast spill or connected in the for the self-or histories of the self-or histories of the self-or histories of the form of the self-or histories of t point ilse t his aned abutte m njuifertu be In ten sam thafr m millit ebel ne file (mone) ull filmelm the emire iil t extends the extension of the transfer of the extension of L i firm [there if) and remated dirtium the proof part of mothers.

which one public medical service has continually to outlind the other, would also be althougher

avoided

II -If, honever, it be deemed desirable (as already indicated) to gender the civil and multiary medical services, while held distinct, nevertheless so interdependent as to be expuble of mutually animg one another in case of need it is suggested that this result might be best ultained by making the Imperial military medical service the portal through which all candidates for the civil service also the important annihity mention service are potent intologies where it desired as to do ever service as should pass, and by exacting from them a shot introductory of ultima the office of service no connection with the military methed service, not only would tune be given for requiring the necessary introduction and other methed detains in the climate and the ocasions and habits of the people, but for that which is most essential in view of possible future employment on military duty, etc., a training in the liabits of military discipline, which can nowhere be so surely obtained as by service in military hospitals European and Native. In this way, it is suggested that the members of the civil service would then form a reserve to the military, or vice versal, as already nointed

Some of the foregoing views which have been here electrical in cuttine only, will be found set forth in somewhit greater divid in a communication (copy statebol) 12 which the subject of whirt is rightly termod a poventure medical service, in addition to a purely contains one, is chiefly

The suntary department costs in Bengal alone between eleven and twelve thousand pounds a year, and can moreover have no duties that do not legitimately belong to, and could not be quite as well performed by, the cavil and military heads of the medical department, separately or conjointly

If sanitation was so long neglected in India, it was not in consequence of any shortcomings

of the medical department or of its officers, but from the unwillingness or imbility to carry out

recommend thous involving expense
While I have no do but that the complete fusion of the military medical services into one, and its separation from the civil medical service, are essential abile on the grounds of efficiency and economy, and that some of the foregoing suggestions on collateral points might be advantageously nomy, and test some or two recepting suggestions on continent pounts much or savarageously adopted, it is expectally necessary at the same time to gard a quants being considered the advocate of such an economy as would adolesh all high on lucutive appointments, because the duties upperfaming to them might be more champly nectorical under other nanagements. Uvery department of Government must have its just prizes it it is to be adequately invanianced from without and this eva only be done by its proffered ienards being of such a character as to entitle it to occupy a desirable position among its other competitors

ANNEXURES TO ABOVE

No 603B . dated 18th January 1878

From-Sergrov-General J H Ker Innes, Principal Medical Officer, British Forces in India.

To-The Secretary to the Government of India, Military Department

I have the lonor to solvert Government orders for the sanction of the following increase to the

establishment of British inspiralis in this presidency—
establishment of British inspiralis in this presidency—
i—A water (soldier) to evel detached wing of infantry or cavalry, to evel division of
royal vittlery, and to a 28 of class hill depth (Rechmath), for seven months in each

year II -A head noise (in hea of the present assistant noise sunctioned) to each detached wine of

infantry or envalry and to each division of 103 al artillery

The clenical duties in British hospitals have considerably mere sed during the past few years (especially so since the introduction of purveyors), and occupy a large portion of the time of method officers and solvortinates which might more profitably be combayed in method and saming duties 8. When the present obt

this very important question received due consideration, and the clonical labor was somewhat lessened There still remains, however, far more than can reasonably be expected from medical officers without

the assistance of a clerk

At present a head nuise is only sanctioned for seven divisions (late brighdes) of royal artillery, the remaining divisions and detached wings of regiments being allowed an assistant nurse The duties in connection with the nuising of sick women and children in large hospitals are very onerous, especially during the summer months, and have to be performed solely by the hospital nurse. I therefore consider it essentially necessary for the well being of the sick that a head nurse should be sanctioned for the hospitals mentioned in her of the assistant nuise at present employed

5 I propose meeting the extra segment and we assess as units at present composed to 5 I propose to meet the extra segment which will thus be ratariled on the Strte by the abotition of the burgeds hospital segments. This non-commissioned officer's duties consisted in preparing the statistical internal exposts of the hugged to bundle be belonged, the several betternes of the burgeds (whereas sixtuand) Jurnishung returns for this purpose. As the head quartiess of origides of royal artillery have been abolished in India, the several returns and correspondence in connection therewith are no longer required. With negard to the hospital duties (in connection with

discapline), these can be performed by the sexior battery hospital sergeant present in a divisional hospital, who should receive an increase to his staff

salaiy" of Rs 2 8 per mensem I beg to append herewith a statement showing the effect of these recommendations in a financial point of view, from which it will be seen that I estimate a saving of Rs 4,057-10-4 annually to the Indian Covernment

7 As numero s orders have been published from time to time with regard to hospital nurses and writers, I append for the consideration of Government, a direct general order embodying the above recommendations, the publication of which, in supersection of all former orders on the subject,

18 solicited



For detachments of less than 200 men, an assistant nurse will be temporarily engaged, when and for as lono hs may be necessary

Whenever it may be necessary to procure the services of extra head nurses for attendance on special cases, such as meane women, women suffer og from contagious or infectious diseases &c application will be made to the officer communding the station (through the administrative officer of the circle) for the sanction of the same in station orders

The following is the scale of ray sanctioned -

Hospital writer (soldier) Hospital nurse { head assistant Rs 10 per mensem " la .. 8 Each nurse (lead or assistant) is allowed, in addition, a pint of malt liquor daily, or one anna and six

pies in he thereof 3 When a soldier writer cannot be obtained, a Native will be employed on Rs 35 per measem

No. 110B . dated Simila, 2nd December 1878

From-Surgeon Major Jeffery A. Marstov for Surgeon General British Forces in India. To-The Secretary to the Government of India Military Department

In consequence of several representations having been made to this department that an acting hospital sergeant was essentially necessary for detachments of British troops. I have the honor to recommend in continuation of this office letter No 609B of the 18th January last, that in the recommend in communication to this cause source to the 10-10 of the 10-10 January has, that in this central this proportion of the project being the special temp of both shall, Government may be pleased to smelton a non effective bestati segment, on a stiff salary of Re 78 per nonsem for each detachment of R is the tropes such detach ment of R is the trope such detach ment of any experitations not being cent their to one

2 The duties in connection with detachment hospitals are as important and numerous as those of battery hospitals for which a non effective hospi-

* Pay Code for India Vol. I Article 1784 Clause tall sergeant on a salary of Rs 7 8 per menorm is authorized * The soldier selected for this post has in addition to maintaining discipline &c , to assist in the preparation of the numerous returns, reports, &c , required from the medical department as no hospital writer is allowed

3 Under existing rules the soldier performing the dates of hospital sergerint in a detachment hospital is not entitled to any ext a allowances and it has been represented to this department that eligible soldiers are consequently deterred from accepting such a position

Rs A P 315 0 0 52 8 0 52 8 0 • 6 G R es for 7 months in end year Blagger delto d'ito Rambhet d'ito ditto Fort Lahore Dera Isa ad Khar 90 0 0 90 0 0 Fort he gra Fitchgard 99 0 Fortress Gwal or 90 ñ Samme Newgeau 90 Moradabad 90 0 0 Curay 90 0 Hazar bagh 20 0 0 Total 1410 0 0

4 I estimate that by giving effect to this re-commendation the samural cost to the State will be Rs 1410 † which will be more than met by the saving that will be effected by abolishing the appointment of brigade hospital sergeants in India
5 I would add that acting hospital sergeants,
on a staff salary of Rs 10 per menseun, are sanctioned

for detached wings of cavalry and infantry, and for mixed detachments of 300 men and upwards see Pay Code for India, Vol. I, Artacle 1746.

No 795B, dated Simla, 20th August 1879

From-Surgeon General J H Ker Lines, Principal Medical Officer, British Forces ın India,

To-The Secretary to the Government of Indra, Military Department

Adverting to paragraph 9 of G G O No 764 of 1879, also shing the appointment of brigade hospital sergeants in India, as suggested by this department, I have the honor to request that the sunction of Government be obtained to the recommendations set forth in the communications margin-No 903B of 18th January 1878 and No 110B of ally noted with regard to the revised scale of non-2nd Decemb r 1879 effective hospital sergeants and hospital nurses for British hospitals in this command—a measure which I consider to be absolutely necessary for the well being of the sick

No 1519S C, dated Samla, 5th September 1879

From-Colonel H K Burne CB, Secretary to the Govt of India, Military Dept., To-The Surgeon General, Her Majesty's British Porces in India

With reference to your letters noted in the mangin, proposing a revised scale of non-effective footh and MRA January 1578, 1008 dated of Desember 1578, hospitals in the Bengi presidency, I und directed to No. 603B dated 18th January 18*8. Ao 110B dated o d December 18*8 No 793B dated ofth August 18*9 As 1108 dended a Discombinities.

As 1938 dended to August 1579

strice that, both on account of the present finement pressure and because the question of bespetal administration will be taken up by the Army Commission, the Government of Lorda consider it adversable that up, proposals for an increase of expenditure in that direction should be bold in absynce for

No 588, dated Simila, 3rd June 1878

From-Colo TT H & BUTYE, C B., Secretary to the Govt of India, Whitery Dept, To-The Adjusted G need in India

With figure to precious correspondence on the sal jest of the model of table hunch repard for the Majorty. British for a string in India 1 m me to regin that He MacRong it Comment is in the Major to make it of the major in the late to the internal india, on the super month in the desired with the major in India, on the super mon that no change will be made in the pre-ind system of regimes all hospitals.

2 Is His Proclement is aware, the present of tablishment excluding the admin traine goal is consists of 1713 officers, who were organizable, it is understood, distributed as follow —

deer-) and acre or Smorth it	20 124141	recoup distribu	tra 13 I	ome -
50 regiment infinitiv	***			150
o n estabri	***		***	27
13 brighdes, royal intillery		***	***	ы
la latteries, royal herse art	llery	**	***	15
43 , werl atallery	419		***	13
Staff officers, Bengal	***			72
" Vindras	***	***	***	28
n Bombay	***		***	27
		Tetal		373

The number allotted to the artiflery raned from the above, owing to the orders contained in G. G. O. No. 32A. cf. 1863, that when there are two batteries at the head quarters of a brigade, one was tast

to both the benefit congress should suffice ungern under the benefit should be earliest the benefit congress when the two parts—first, the earliestment of corps and Literacy, second a ar rest, temperath posts to around dutes, but sup out to be available for filling eventual, that is, for a placing officer, on such or parate have, and for supplementing the methal

estable lineart in cases of enterprises.

4 has wines, therefore that no change need be made in the regimental establishments its immediate que tion for consideration is whether the reserve is sufficient to meet the above objects.

or whether it is excessive

5.8 far as the fowermment of India are were, this receive was found ample in 1869, such that date two remnents of evolve, two of influints, three largedes of utility, in I five butters roy if for a withery lavel even where we will have been a fact which with the results of a single officer on the resure led.

O As remark of along, the question and its consideration of senger outer of an exercise of the remark of along the question and its consideration of the semantion find to change as in 1 made a to the Cart made at the Cart made

7 The following then would be the fixed establishment -

9 regiments enviles				27
50 " mfatre		***	•••	1/0
15 batteries horse artillery				15
43 fi ld actillers				13
2 mountum artill ry	***			2
7 der 6ts, Brugal				7
S " Madris 5 " Bemby				d
	., .	***		5
Secret "es to sur geon-gene	rat	•••	***	,
Stat. ' ral officer, Bengal			• •	1
		m,	.5	0.8

Appendix IV

10 In connection with this subject, I am to beg that His Excellency's attention may be mixted to the greatly increased cost of the British Medical Service in India of inte years, which rendors it imper tively necessary to make any reduction that may be practicable without impuring the

delicency of third service, or condengening the well being of the troops, both in health wil in suchness. If The establishment of 375 officers, given in the Bull pringraph of this letter, consisted formerly of 91 suggests and 828 sessions also sessions as Sub-equinally, in 1573, then the runh of sessions are such as the sessions of the sessions of the sessions of the sessions are set of the sessions of the sess surgeon was abulsaled, and a larger proportion of senior to juntor ranks was given to the methcal ser-vice, the complement of ranks in India was altered to 163 surgeons major and 210 surgeons at an increased cost to India estimated at £48,000 per annum

In 1876 a further change was made in the system of promotion, all surgeons being promoted to surgeons mappy effect 13 years survey, group, with the immediate, in surgeons edge promoten to surgeons mappy effect 13 years survey, group, with the immediate result, as fair or India use concerned, of an increased charge of £50,000 er annum Tittee has there been within three years in india to not £57,500 per annum to the mintary method charges of this country, without the oldstood of a fair of £75,000 per annum to the mintary method charges of this country, without the oldstood of a fair of £75,000 per annum to the mintary method charges of this country, without the oldstood of the fair of £75,000 per annum to the mintary method charges of the scoutry, without the oldstood of the fair of £75,000 per annum to the mintary method charges of the scoutry, without the oldstood of £75,000 per annum to the mintary method charges of the scoutry, without the oldstood of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the mintary method charges of £75,000 per annum to the first the first three first three first three first three first three first three first three first three first three first three first three first three first three first three single officer to, and upparently without in any way increasing the efficiency of, the British Medical Service in India

12 This point is not one on which the Government of India propose to tale any action at present beyond uiging on the Secretary of State that the proportion of the senior to the junior ranks shall not be higher in India than on the home estimates, but it is now brought to the notice of the Commander in Cinef that His Excellency may be save aby, independently of the expediency of not increasing my expenditure that can possibly be avaded or reloved, the Governor-General in Council is unusous to take curt steps to expert the finances of Indry from a postron at least of the heavy burden which the late changes in the organization of the British Medical Department have thrown upon them

His Excellency in Council is confident that he can rely on the cordial co operation of Sir Frederick Haines in attaining this object without, it is hoped, in any degree impairing the efficiency of the service.

No 1048C, dated Simla, 10th July 1878

From-Sunc -Gent J H Kan Inwes, Principal Medical Officer, British Porces in India, To-The Adjutant-General in India

I have the hotor to offer the following semarks with reference to the proposal made by Govern*Wilter Department No 688 of the fall free 1878 ments to reduce the establishment of recentive ments
and with Adjustation General No. 2020 of the coll officers, in so far as it affects the Bengal commond with Adjustation General No. 2020 of the coll officers, in so far as it affects the Bengal com-12tl ultimo mand

1 In 1878 the question was carefully considered by the late Surgeon-General G S Bertson, and in consequence of the name carecurp constanted by the tase supportant of Deletish; and in consequence of the name changes which and up to that period taken place with regard to the strength and disposition of the troops it was recommended, and finally approved both by the Indian Government and Director-General of the Army Moderal Department, that the strength of the occusive medical officers for this presidency should be fixed at 250. This number was based on the following scale -

32 regiments of infantry at 3	,	***		96
6 regiments of cavalry at 3	٠.	***		18
83 batteries of horse and field artillery		***	***	33
2 batteries of mountain artillery				2
7 herd quarters brigades of royal art	llery	***	***	7
Secretary to surgeon general	-	***		1
Statistical officer	111		***	1
Reserve	***	***	144	72
			_	_
		Total .		በደወ

The reserve of 72 was intended to meet the requirements of-

administrative charges of two circles," * G G O. No 381 of 1868 hill depôts,

detached wings, a few garrison britteries,

permanent detachments, absentees on leave, and muscellaneous duties

2 Since the above strength was smettoned, the only decrease that has taken place in the troops has been the abolition of the several head quarters of brigades of royal attillery. This reduction, under ordinary circumstances, would have admitted of the services of seven medical officers being dispensed with, but in consequence of certain changes that have taken place since 1873—such as increasing the number of troops in small detachments in the bills, trunsfer of the 41st Company of Royal Lugineers from the Indian to the British medical service, &c -it has not been found practicable in the interests of the service to reduce the strength of medical officers below that of 228 (see paragraph 5)

3 Since 1869, one regiment of cavalry, one regiment of infinity, and two batteries of horse and field artillery have been withdrawn from the command, and had at not been for the formation of two butteres of monoton artillers and rest-camp nospones, one necessary of the detachments in the bills during the summer, and the interest of economication of bill depôts, a further detachments in the bills during the summer, and the interest been reacheable. The changes reduction in the strength of melical officers would no doubt have been marketable. The changes which have laken place in the distribution of troops during the past ten years have, lowerer, been a moprimit that, had not the regimental system been abolished in 1878, some other armagement for a redistribution of medical officers, so as to meet the wants of the various cucumstated in the command, would have been imperatively called for.

4. Government now desire, while leaving the existing regimental system undisturbed, to reduce

the military medical expenditure by making a fresh allotment of medical officers, as follows -

Regiment of eavalry 2 Regiment of infantry 3 Briter of lot field or reautur arillers Huld pet Swaters to e recon general 1 S at the lofter I eru f r leave 50 htt o'n

10

He rue for me will meens dutie As regar? the pro c or for infa itra regim at , batterie of horse fill and mountain will or the router to surgion general and statest cal officer no remarks are called for, but each of the remain ; tem will a quire to be separately considered

I Crier -I the the present extern two medical officer would not be sufficient. With A the streng mer non-commissioned efficers and men is far below that of an infinite argument if medical data: are in reality trace ardinous, in ocuse pienes of the large. Native est 1 list next (10) er of the react of vines is in, it is because some made officer and two ken is received as a colored. The houst of related to in paragraph C of Militan Deposits in le tra in no are concerned with the midneral (profe surely) for almost of the ick, we a strongisted dutter tree sumply to curry out the order of the reduced officer. It is more than questionable with the city and pathetimes of m as write in what has the looped a second gradele was in the city and pathetimes of m as write in what has the looped a second gradele was the city. metally that being entrusted with the entire medical charge of a large estal hishment. In most called corps moreou r, a medical officer is frequently detailed to attend riding selved and mounted paul The duties in connection with the logistial &e have therefore pricincally to be performed by two medical officers on the senior of whom devolves the supervision of everything appertuning to to largiene of the corps the smither inspectors mittle

neven very negers or percent I a reposed that some ested with the offeral returns reper-and correspondence. I not rear any regulations the common long officer may direct the after low of a mode of other at 1 or des when ver he considers it do unable but if this order is resented to there agrees no re on why at shadden to and it medical charge of the large number if to non of A day I'll were is trun ferred to the an theory (with the inter turding that ho is to seek the alice

of he eight right energy meet ears) two medical effects may then suffee II Infiltry—I would only matrix that the services of three medical officers are as utable

nece are under the present system

III Latt recoff r 3 il tritil rf-It is also butely necessary to attach a medical other to game? I tien as him these anchorated in forth or in attitions awas from divisions of tox il artill relifefill ing are the state as thus garrisoned by untillity, and to each of them a medical officer mast ritle is pr vided for in the scale, or the reserve must be increased so as to meet the requirements of this serve -Della I ort.

Agra Fort Gi ther Lort Intel now Port Governdghur 1 ort Interepore Lort Attoci I n Calcutt , Lort William

the sit, see where

To Hill Do "to—The Government prope of it to allon one mode of effect to each depth, and
to attach is a violating the summer mostle for in an ingit to a doing duty with cape. To core
elift "_ too is requirent mostle prescheduled properties of in it is described in the state of the size I in mal while, and are at firthe charge of a terms during the trooping pro-If the Indichable have to prach two moted offices for eal larg depet that ! are to m n. then erre percents, to me bille requirements ef lath (dez ibanile bert) It I rank care in the I extrat but con after the withdraw 1 of medical officers from nome at a mibtldenen 1 this i m

(879)

[Appendix IV

228

230

officers [The services of these method officers would be available for the charge of detailments proceeding from station to station, in robed or otherwise, during the winter months]

The total number therefore required to ermy out the miscellaneous duties may be estimated at 25 (equal to about 11 per cent), but as the charges some of the temporary detachments can be given to the regimental staff. 10 per cent would be saff event

5 Reviewing the thore the following establishment is necessary for the several charges -

6 Regiments of envilry at 3	18
32 Regiments of infantry at S	86
11 Batteries of royal horse artillery	11
22 Batteries of field artillery	22
2 Batteries of mountrin artillery	2
9 Detacke l batteries of garrison artillery	9
1 Company of royal engineers	1
6 First class hill depôts at 2	12
1 Second class hill depot	1
Secretary to surgeon general	1
Statistical officer to ditto	1
 Pres dency and Grahor Circles Superintending surgeons major* 	2
∠dd— Total	176
Reserve for leave at 20 per cent	35
	35
" for miscellaneous duties at 10 per cent	

Present sanctioned establishment 230

Hilderlat threeps two suggests major of over 30 years arrows now standed to draw a so of any larding saming of short 25 950 per annum †

Grand Total

Decrease

6 But the maximum number of methen officers 11 Bongul at vay one time has not exceeded 222, or 8 under the orthol head strength and 8 under the number that I has or termated should be allowed. This decrease has no ever, provented 1 number of method officers from obla ning leave, at the cost probably of loss of bruth in all physical efficiency. Then declared sports propered by Dr deChromont Profes or of Valitry Hygene in the Array Adobad School at Nelley 1 into that the assured average destin taste of usury med on officers cloudated for this 1, pers, was at high as 30 profess. The profession of the property of the property of the profession of the pr

7 I well submit is at if commy in the multary module expenditure is to be effected with a divergency of the latter of the value of the module of discharge, if it is a reorganization and development of the substitution in the committee of the substitution of the s

in the following manner —
Charge of Native sick in cavalry corps

detached gramson britteries
cortain detachments permanent and temporary

" royal engineers

n 1est camps

Doing duty with regiments of infantry in hea of the third medical off cer

100	ing ducy what regulacies of infallery	in nea of 6 c rana men	Cat on eet	
	ch a system introduced the number			178, 1
	Regiments of earthy at 2			12
	Reguments of infinity at 2			64
11	Batteries of royal Lorse art llery			11
	Butter es of field art llery			22
	B itemes of mountum artillery			2
6	I'nst class depôts at 2			13
1	Second class depot			1
	Secretary to sugeon general			1
	Statistical officer			1
	Superintending surgeons major			2
	Add.—	Total		128
	Reserve for leave 20 per cent	Avear		23
	, for miscellaneous duties			25
	,			_
		Total		178
		Decrease	•	50
		Grand Total		225

The merease after the first year to be withheld in the event of the subordinate failing to pass if a examination laid down in G G O No 555 of 1871

2

1

3

10 Instead of the present insufficient allowance * I' rat resue.a burg est st co 1 blanket 1 sheet annually 1 blacket to coully of bedding," each apprentice on joining the serves 1 settmagge should be furnished with the following articles as a 1 sutti i igeo trienmally 2 sheets fast assue -

English blankets Sheets Suttringee Mattress Pillow

and afterwards-

1 sheet annually 1 blanket trienmally 1 suftringce trienmally

A set of two punkah cooles should be allowed free of cost to such apprentices as may be employed in a hospital

12 Fuel at the present scale should also be allowed to apprentices whonever it is resued to the troops, whether in the hills or on the plans An appendice serving at a hill station already recent

fuel, but none when serving on the plans, although in many of the stations (notably in the Pumph) the winter is severe

Uniform - Apprentices are at present allowed one suit of winter and two suits of summer 13 clothing yearly the latter should be merci ed to three suits per annum

secondary greaty—the matter second on meet en to take some per admitted.

14 The loss of pay to apprendices when not sent to college offer a service of two years at sensible greateness. The matter than the matter properties of G G G O No 500 of 1868 that apprendices about enter the medical college after such period. I am nevertheless of common that it would on all accounts be preforable that lads on joining the service should proved at once to college but as Government have negatived my proposal to this effect it only resume for me to suggest that the time spent at a multivary hospital anterection to college be cuttain. to one year, which should amply suffice to determine whether an apprentice is likely to prove essent or not At the end of six months in a medical college, where the training should be as postical as possible, and designed to fulfil the special requirements of a medical subordinate's form career (the man totion being monthly clinical and highermorenheal in chivacter), he should be required to prise a test evament on to determine whether he had been turtly dilagent, if not, he should be dismiss? Were this rule adopted, the age of Lads on joining might be russed with advantage from 16 to 18

years, instead of 15 to 18 years, the present ringe
15 The lass of one-fourth of the pry and all allou mees while absent on account of all said. contracted while on service in India is unquestionably a great hardship, and besides being impolite it is regarded as norther equitable nor just that a subordinate should be, in effect, punished for having the misfortune to contract disease in and by the service. Were this corrected, no additional expento the State need accrue but the period of sick lenge should be himted to six months, thus gaming against abuse. In 1875 a petition from several members of the subordinate medical department of submitted It Officerting Surgeon General Criwford but on a report intrushed by the Controller of Military Accounts, the appeal I regret to say, was negatived. In this report the Controller modes comparison of the loss sust used by warrant officers of other departments as compared with that a the medical, from which it will be seen that, while the former lose about one fitth of the richal por and allowances, the latter forfest exclusive of quarters one fourth or an average of one-third of the total recents. The decession of Government was probably influenced by the fact that the Controller considered queriers to be a free grift to medical subordinates, whereas they form part of their aller ance It would be only just that inclical subordinates should be able to claim compensation for on these

while absent on a cl have in India 16 Sick leave being attended with a loss of pay, medical subordinates are presented from and ing themselves of it when iest and relaxation me absolutely necess ry, for in the hills the only place to when invalves on one of rest and restriction are absorately neces; ry, to m the lifts the one produced by beyond their reduced by beyond their reads. These consequently remain methodently performing their dates and their beatth becomes so I od on as to necessate funlough to Lurope, thereby coursing augmented express and an unmoversure of time on the Mid-M. D. when the support of the produced by the support of the major the support of the mid-M. The support of the major the support of the major the support of the major the support of the major the support of the major the support of the major the support of the major the support of the suppo

and an unnecessity stream on the M died Dipartment

17 The following trible shows the love of pry of the warrant officers of other departments of compared with those of the medical while on sick leave in India:

Other Departments

Grades	Total pay and allowances	Total loss while to leave	Propo tionate lo
Depair Commisers Assistant Commisers Depair Assistant Commissary Conductor Sub Conductor	Rs 500 375 300 160 125	Rs 100 7, 60 30 22.8	Equal to about one file

Subord nate Medical Department

Gradus		Амог	AT OF SA	LURT	Loss w	nire oy	LEATE				
		Pay	Quarters or ats	Total	Pay	Quarters of its	Total	Propositionate loss			
Semon apothecary Apothecary, 1st class , 2nd , Assistant apothecary, 1st	t elass	Rs 400 200 150 100 75	Rs 50 30 30 20 20	Rs 450 230 180 120 95	Rs 100 50 37 8 25 17 8	Rs 50 30 30 20 20	Rs 150 80 67 8 40 37 8	Equal to about one-			

From the above it is apparent that warrant officers of the Medical Department forfeit on an average one third of their pay and silowances, while those of other departments lose one fifth only. This wide disparity is unjust to medical subordinates, and is doubtless one of the causes of the impopulanty of the service

With regard to the small proportion of first class warrant officers" as compared with other 18 departments the members of the subordurate medical * Sen or apothecaries department would seem to have rust grounds for com-

plaint, as may be gleaned from the following table -

DEFARTMENTS Public Works	Num	Number of					
	Prest class	Second class	IST TO 2ND				
	wrerant officers	warrant officers	CLASS				
Public Works Ordinance Commissariat Miscelleneous Suberdinate medical	9	\$5	25 71				
	9	61	11 75				
	7	55	12 72				
	4	19	21 05				
	8	193	4 14				

The grades of honorary surgeon and surgeon major cannot, under present rules, be conferred on warrant officers of the Medical Department in regimental employ, and as this promotion when it is conferred carries with it no extra salary, in mercase in the number of senior apothecaries would appear Collidate during with in the exams usury, in morrors are memor or some youngerner wound appear to be very desmable. The consolidated salvey of a summa quolicarry is Rs 400, and that of the next lower grade (first class appelaeury) Rs 100. As the number of the former submitted to S [10] per cent on strongth), it would be preferable to merces the number even on a reduced salvey. The grade might, therefore, with advantage be divided unto two classes—uses on Rs 300, and a second on Rs 350. consolidated, with 10 members in each class To the grade thus created might be delegated some of the duties now performed by junior medical officers in regiments of Laropean infantily and cavalry t

t One to each corns

Senior apothecauses should rank with deputy assistant commissaries, with the relative rank of sub-licutement

19 The low rate of pensions of senior apotherance and honorary surgeons and surgeons major, † Deputy commissary Assistant commissary Deputy assistant commissory

as compared with first class warrant officers I of other deputments, requires to be specially considered, and I am of opinion that it would be found advantageous to

place the first class warrant officers of all departments on one footing. The following table shows the disadvantages of the subordinate medical department in this respect, especially when considered in connection with the enhanced rank of the latter -

Gades	Total pay and allow ance	Annud relang pension	Annual in Eng		brown	Anzuri urdous pension	Relative bane
Other Departments	Rs	£	£	£	£	£	
Deputy Commissary Assistant Commissary Deputy Assistant Commissary	500 375 300	180 120 90	180 120 90	210 175 140	100 70 50	\$6 30 26	Captain Lieutenant
Subordinate Hedreal Department Honorary Surgeon-Major Honorary Surgeon Senior Apothecuty	\$50 rising§ to 700 400	150 150 100	120 120 80	175 179 150	70 70 50	30 30 20	Major and Lecuten- ant Colonel Lecut and Captain

(884) Appendix IV]

It will be seen from the above that a senior apotherary, while receiving in India in excess of Rs 100 a month as pay over a deputy assistant commissing, obtains \$10 a year less invalid person In Lunge, and the persons of honorty suggest and surgest maps also compute tery unfavorable with those of deputy community. It would therefore seem but Fur that the pensons of honorty suggests may as a bid be assumitted with those of deputy communities. surgeons mayor to the descrimination and mose one pages, commencing, anotherly surgeons with these of deputy sensition commissions. The continued of assistant commissions, and entering the continued in article 2426 of the Pry Cole for Indra, Yol I, should be cancelled, and wrant medical officers, should be allowed the persons of their grade, networkers of the length of struct the, may have pass of in the grade. The restriction continued in the order above orded is not, I below, applicable to any but medical warrant officer-

30 I have already referred to the discomfort to which medical subordinates are subjected while travelling on duty with troops. Then most important duties only commence on the arrival of troops. at a rest camp, and, unless allowed lying down accommodation while travelling by ruly ay at night they must be unlitted for the proper performance of these at the conclusion of each journey therefore to ommended that medical subordinates be provided with lying down accommodation where

involving on duty with troops by val.

21. Methed subordantics with the exception of supersed boundal apprentices we allowed for convergence for one servant only view for receiping on, duty by rather. The projects being norsely men had it extremely difficult to provide for the comfort of their families with only a single servant in attendance In 1876 it was recommended by this department that married warrant officers should be

allowed presiges for two servants, a number that cannot be deemed excessive

22 The allowances sanctioned in hon of quarters and tents should be included in the pay of all medical suboidimites, equivalent deductions being made when accommodation is provided. This cor cossion would practically involve but hitle expense, seeing that it would only benefit the very for on leave but it would remove a source of frequent complaint and an invadious distinction. While on the line of march, warrant medical officers should each be furnished with a necessary tent flo majority of them being married men renders such a provision essential The necessary tent can be critical with the staff tent furnished no extra critiage will be necessary

23 In view of reducing the number of commissioned medical officers, and delegating to the subordurate medical cervice some of the duties now devolving upon the former, it is thought expelsed to introduce a new grade shows that of sense, spoileavery, it this may be splic! staff replacery, it the members of which would be eligible for the members of which would be eligible for the medical charge of detachments of British toops will be stations only where a European medical officer may be permanently located, to whom they should be subordinate and under whose sujervision and direction their professional duties should be earned on

21 The grade of staff apothecary should consist of 12 members divided into two classes—int and second—half in one. The first class should tank with deputy commissiones, with the relative risk. of captum, and the second class with resistant commissiones, with the relative runt of heutened. The pay of the fact class may be fixed at Rs 500 per mensem, and that of the second class at Ps 100 per mensem with pensions recording to their substantine runks, thus bringing the subordinate med cal department on a par with other Indian departments

The relative rank is mainly recommended with the object of estimating the rates of persons

25. The relative rank is mutual; accommended with the object of estimating if a rate of passion measurines with the puncile is Golfourd by other banders of the service, in dwild the object of using the search position of the monit era of this grade, so that they may not be at already using a share account, may seem and that the search affects or detected by the rate of the object, at such it is made and the state of the state of the object, at such it is not did that if the second mental time to propose shall gotten as to the medical charge of small detailments or Bothst town be vanished, but will be particulable to mid er furthers and a comparatively greater, or thousand to made that the proposition of the medical charges of the state of the country and infinity, sader the conditions that grade the conditions when the country and the constant of the country and the constant of the country and the constant of the country and the constant of the country and objects are more than the country and the country and the country of the country and the country of the country and the country of the country and the country of the country and the country of the country and the country of the country wh tever why this should not be done, for the charges held by the commissioned medical officers are in practice of 1 q risa nominal character at is presumed that a saving of about Rs 150,000 per sman will be effected in addit on to that shown in Appendix. II If want is med cal officers are competed to hold, as now, the moderal charge of second and that class and statement distincts, they should be equally so for the charge of Natire cospe;

The shelmed that in the execute of Government sunctioning this silicence, it will be parted with the property of the charge

to make about ten premotions annually in the grades of sensor and stiff apolinearies, so that in for your stip grade will be made up to its full strength. A corresponding reduction in the made of the state of the medical officers could be carried out in communication with the Director General of the Arms Medical Department It is believed, too, that in this manner is ramble asserte may be formed captible in periods of severe framme or epidemic visitation and in time of war, of affording that support to the

catte medical stall which is now so essentials useful action medical stall which is now so essential medical stall which is now so essential medical stall which is now according to conductes for the sal ordinate medical department after physical fitness of the candidate for the

EXT. we had been dire certified

2.3 The attestation of conductes was, I behave, introduced in 1802. It is strongly of old to by them at forms no larrier to the resignation whenever they are so melined, and experience is proved how futile t the endersour to refun an up renders in the server gg and is vitil. On it offer in all maps natice who is successfully presed through a cause of collegate truming does to refuse the server of collegate truming does to the server of th ad it immedit to other can los ment. Afte trition mu, bt, ther fore, idvanta eo iels le di pensed with

only amoved to control only assumed. The trium might that fore, when the good he followed to be during to the chair theory gettinged high, it is suggested that while it is long.

*Pollowed assumed to these that the production of the proposition of the tension of the control of the tension of the control o m at might be met by withholding the a specifile Indian Melical Grette to British he spit

I st end sum as hell or tracking allon ne might als migges ish be given to proge A second with the complete of the three man to make the man are marged on the great of the holy of the three three man are the man and then to the three the holy of the three three man and the man are the man and the man a

2 It is proposed to reduce the present number of medical efficies with regiments of Disoperus evelry by one, and to trusfer the medical charge of the Nature establishment to a sensor upotheoury, the latter receiving an afformess of Re 30 per measure for the earth only performed. Thus charge is one third that now drawn as for go by the third medical offices

33 A buef resume of the recommendations may by given thus -

1st -To vest the administration of the subordurate medical department in the hands of one a 2)

to the civil department as a rule to be of a permanent nature (para 3) 81d -Increase of pay to unpresed hospital apparentices (paras 6 to 9).

4% -An improved scale of hedding to the same (start 10)

1/1 —Allow race of pand in coolers to ditto (pane 11)
6th —Allow race of finel to all hospital apparenties whenever issued to troops (pana 12)
7th —A revised scale of clothing for all hospital apparentiess (pana 13)

8th - the arrangements to ensure apprentates joining the Medical College at a much earlier period than at present (para 14) 9th -The number of first class warrant officers (senior spothecaries) to be increased to 38 on a

reduced rate of pay (para 18) 10th -The pensions of some apothecarus and honorary surgeons and surgeons-major to be

assumilated to that of first class w mant officers of other departments (norg. 19) 11/4 -- Improved recommodation to medical subordinates when travelling on duty in thosp special

tiains (*para ~*Ò) 12/4 —Muraed wurant medical officers to have a face passage for two servants when travelling

on duty by rulway (par: 21) 13th -The pay of the subordinate medical department to be consolidated and to melade house-

rent, deduction for the same being made whenever I toxided with quanters (para 22) 14t/ -Consolidated pay to be allowed for a limited period to medical subordinates while on sick

leave in India (paras 15 to 17) 15t/ -A superior gride of staff apothecary eligible for employment on duties which have

hitherto been assigned to junior medical officers to be introduced (paras 23 to 27 16th -The entrance examination of candidates to be conducted by the educational department

17th —The abolition of present form of ritestrinon (para 29)

18th—Bool's and upp trains while apprentices are in college to be supplied by the State (para 30)

19/3—A field of travelling allowance to presed hospital apprentices (pair 31) in 19/3—An allowance of Rs 30 per mensen to the senint spothectry of European cavalry regiments for the separal networks of Native exhibitionized E. (pair 32)

Appended are attached tables showing

I — Present and proposed solvines for the subodimite medical department

II — Effect of the recommendations set for this communication from a financial point of view

III -lable showing the net salary paid monthly to medical suboidmates on the present and proposed schemes APPENDIX I

PRESENT PAY

PROPOSED PAY

Statement aboveng the Present and Proposed Rules of Monthly Pay of the several Grades of the Subordinate Medical Depart text

			- 11	EGD (I	141		PROPUSA	ID LAI	
		Pay	Rat ons	Quarters	Total	Progressive	Consolidated	Progressive	Remares
Unpassed Hospital Appientice In College Passed Hospital Appientic	1st year 2nd " { 1st " 2nd " 3nd " 3nd "	Rs 16 20 20 25 30 50	Rs 10 10 10 10 10	Rs 71 74 74 71 12	Rs 391 377 42. 174 72	5	Rs 40* 40* 50* 50* 70†	Rs 5 5 5 15	House rent 10- duced from Rs 7 S to Rs o † House rent re d teed from Rs 12 to Rs 10
Assistant Apothecary .	and class	7a 100		20 20	95 120	23 20	90‡ 11:1‡	20 25	Howe rent re dured from Rs 20 to Rs 10
Apothecary .	{2nd ,, {1st ,, {2nd ,, }	150 200		30 30	180 230	60 50	170§ 220§ 300∏	50 50 80	Mouse rent re duced from Rs 30 to Rs 20
Semor Apothecary	\ \land " \ \ \land \ " \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	400		50 New	450 grade	200 {	220 H	50 50	duced from Ps 50 to Rs 20
Staff Apothecary	lst "			New	gride		500	100	

Notes -1 Passed and unpassed hospital apprentices may, on payment of Rs 10 per mensem, be provided with a hospital full diet

2 When suppled with quarters, the following monthly deductions should be made.

Rs

Unpassed hospital apprentice
Passed hospital apprentice
10
Ass stimat apprenticy
15
Apotheory
20
Senor repothecary
20
Senor repothecary

Simor repolitecary
Simil repolitecary
3 Deductions on recount of infenor quarters recording to existing reportions
4 Presidency boser sent recording to regulations repulsations on the unarrant offens* (Bergil Burnel, Regulations purposed heaptial apprentices recenting a proportion relative present and in the proposed properties of the properties of the properties of the properties and the properties of th

5 As senior and strift nothecaries will be employed in executive duties they will not be required to live in the hospital hill either sibo durites.

nured to live in the hospital fill e other sibo dirates

6 Staff or employed, and field or marching allowances according to existing regulations

APPENDIX II

Statement shows g the Cost of the 8 bords are Metical Department under the Present and
Proposed 8 shows

2 reporter ajus	25,000								
PRESENT ESTABLISHMENT with stodyficults is suggested in Letter No 2, of 24th April 1879	Rs	A	P	Rs	A.	P	Re	A	9
90 Unpassed Hospital Apprentices									
Pay of 18 first year, at Rs 16 per measum " 18 second year at Rs 20 per measum " 18 first year College, at Rs 20 per measum " 18 first year College at Rs 2a per measum " 18 that year, College at Rs 2a per measum " 18 that year, College at Rs 2a per measum Ho see crut, at Rs 7 per measum Rs thouga at Rs 10 per measum Rs thing and clothing, at Rs 2 per measum	288 360 360 450 540 675 900 180	0 0 0 0	0 0 0 0	3,755	0	0			
75 Pame l Horpital Apprenences						ĺ			
Pay, at Rs of per measem Ho as rent, at Rs 12 per measem Rations, at Rs 10 per measem Bedding and elothing at Rs 2 per measem	3,750 900 750 150	0	0 0	5,550	0				
126 Assistant Aj otkecaries				0,000	v	U			
Pry of 76 first class at Rs 100 per mensem , .00 ecor l class at Rs 75 per mensem House rent, at Rs 20 per mensem	7 600 8 7 0 2,520	0		13,870	0	0			
67 Apolhecaries				10,010	U				
Pay of 37 fret class at Rs 200 per mensem , 30 second class, at Rs 130 per mensem House rent, at Rs 30 per mensem	7,400 1,500 2 010	0	0	13,910	a	0			
8 Se nor Apolhecaries	Ì			,					
Pay at Rs 400 per mensem House rent at Rs 50 per mensem	\$ 200 400		0	3 G00	0	0	40 65	3 8	
All— 'I copies of Islam Medical Ga ette, at Rs 1a each	Ant	านาไ	Lŋ	pend fure	,		4,89,196 1 266	. 0	
		GE	N.D	Total			4 59,150	0	
* is the options as sub-cords to	at					_			

Is an applicate as subcords for lest our recorded a core lesten a leptical audicommissive foolers dels sometends in a lanckery list and patrocommissing.

Statement showing the Cost of the Subordinate Medical Department under the Present and Proposed Systems—continued

		_							
	Rs	Α	P	Rs	A I	P	Rs	A F	•
PROPOSED ESTABLISHMENT									
90 Unpassed Hospital Apprentices									
Pay of 18 first yeur, at Re 35 per mensem "18 second year, et Re 40 per mensem "18 first year, Collège at Be 4a per mensem "18 second year, Collège, at Be 50 per mensem "18 thurd year, Collège, at Be 50 per mensem Bodding and doltung, at Re 5 per mensem	630 720 810 900 990 180	0 0	0 0 0 0 0	4,230	0	0			
75 Passed Hospital Apprentices		_		9000	v	Ų			
Pay, at Rs 70 per mensem Beddung and clothing, at Rs 2 per mensem	5,250 150		0	5,400		0			
126 Annstant Apothecarnes				0,200	υ	U			
Pay of 76 first class, at Rs 115 per mensem , 50 second class, at Rs 90 per mensem	8,740 4 500	0	0	18,240	8	n			
75 Apothecaries				10,210	•	·			
Pay of 87 first class, at Rs 220 per measem , 38 second , , 170 ,	8,140 6,460		0	14 600	. 0	a			
38 Seutor Apoléecartes						·			
Pay of 19 first class, at Rs 350 per mensem ,, 19 second ,, ,, 300 ,,	6,650 5,700	0	0	12,350	1 0	0			
12 Staff Apothecaries				,					
Pay of 6 first class, at Rs 500 per mensem ,, 6 second ,, ,, 400 ,,	8,000 2 400		0	5 400	0	0	55,220	a	0
								_	_
Add-	mual E	rper	ndıtı	116			6,62,640	0	0
Estimated cost of punish pullers for hospital appro matching allowance to passed h	esprial	api	rent	100S			1,500 500	0	0
Medical charge allowance of Native establishmer Rs 30 per mensem each = Rs 180 per mense	m						2,160	0	0
Estimated cost of extra bedding and clothing, and 13 of the letter Februated cost of full to hospital apprentices at all Estimated cost of books and apparatus for apprent	ations 1	n th	e pl	nns	phs		400 200 800	0	0
Grand Total Ar	nual E	zjei	adıtı	me			6,68,200	0	0
			_		_	-	<u> </u>		-
ABSTRA	CT						Rs		
Cost of present establishment Probable samp by the reduction of 50 medic Saving of forage allowance of 1 surgeon in	al office	īb on	ah .	raa mani	٠.	4	1,89 156 1,88,000		
coldry	aget II	. 62	Cat]	reg aten	***		6,480		
Probable cost of proposed establishment Increase to office establishment		1	lotal	6,68	,200 ,400		,83,936		
Process to onice caraoustiments	***		•		,100		20.600		

Estimated Annual Saying Note—There will also be a considerable saving effected annually in the charge of passages of medical officers to and from England which it is believed, will meet the enhanced rates of passages recommended

6,70,600

2,63,536

APPENDIX III

Statement showing the not cash pagable not this to each goind on the Suberdinate Medical Department on the present and proposal rates of pays often delants o componention for rations in the case of Hangid Apparentices and house-rest in the case of all Medical Subordinates, beaver and Staff Apatheonic executed, it will not be consisted to line to the houstful.

			Thesen	RATES	Proposi.	D Rerre
	GRADES	Net monthly solar	Progressive merease	Net worth	Progressing increase	
			Rs	Rs	Rs	Rs
	ſ	1st year	16		20	
		2nd "	20	1	25	5
Unpassed Hospital Appaentice In College	{	(lst "	20		80	٥
	In College	2nd "	25	5	35	5
	(3rd "	80	5	10	5
Passed Ho	pital Apprentice		50	20	50	10
		(2nd class	75	25	75	25
Assistmt A	pothecary	{1st "	100	95	100	25
		{ 2nd 3,	150	50	120	50
Apotheeury	•	(lst "	200	50	200	50
	/3	(2nd " .	} 400	200 {	300+	100
Senior Apothecary		{lst "	300	200 {	3,0≭	50
	•	(2nd "	New	Gride .,	400 ³	50
Staff Apothecary		(1st "	27	,, .	500*	100

Singers Concerd J. F. Bentron M.p. Is Han Medical Department The Bengril medical service is maintained by periodical accessions of stength determined two annually, in Jinuary and July, but which strating from the revision rety carefully made in communication with the Diunice Department of the Government of Indam 1870, marrials

the Turner Department of the Government of Indra in 1870, inventily occur pool either with new oppositionals steaded, and accessing special coints, or with vacances resulting from the several evers of decrease, retirement, resignation death. It must therefore be critical thirt, unle a from ridge it dranges introduced into the organization.

there cames (reliable to be a mee, against symmetric blackers actual appointments and liferes to fit them, and thus is a like the case, it is is been but too often demonstrated when may energe by the manyle distinct its analysis of the tempostarted for the Madrian multi-level, there was not a single spars after to proved as a reserve, and it was necessary to an unge through the Government of India, with a local local contents and Administ refuses to make uringmants for setting free some considerable number of method officers under them in earl employ, by placing civil databout temporarily in the indias of in extent suggesses and unconstanted by actiones. Their meeting both lock cry till curred (at in onlee to official the necessary method traff for the active environ Afghanism in 1st a 1st in crystal setting, completely, and mo tollators and satisfied field of risk to the demal distincts. It does not fall within the scope of my duty to communic on the gree yet of all the sense.

It does not full within the scope of my duty to communition the gro stotal of the composed within Lindry, but I im nevertheless clear in one point, that the Indian medical services Burrl his not or officer to many

and a memore of content too man. The open man the strongly described in the strongly of the st

At it first every up I down the attention of I for jumin up 1910.

At it first every up I down the attention of I do Govern out of I industriate full it distributed it for it is a first of the light many of the attention up to the attention of the I industrial in the control

As soon as the matter was thus brought under reference, the Government of Indra ordered that for the future none but a regimental officer was to be appointed to a staff charge, but whether the instruction is obeyed in the spirit as well as the letter, I am not in a position to say with certainty

Very considerable reduction of expenditure would directly result from a measure which I consider

roll communities conscious in experiments wous according to their information field 1 consider to be perfectly equitable and inside called for, namely, to 7 to every Butch moderel officer who was not in India or in the service in November 1884 on unemployed pry during all general livine as is non endicated in the case of every officer of the Indian methods service where communities herris of the communities of the service where communities of the service where communities of the service where communities are serviced in the service where the serv is non enforced in the case of every offices of the Indian medical serious where commission herry date and subsequent to that of the despited of the Right Monorable the Secretive of Static, In Indian, No. 310 of 7th November 1564, purgraph 20, and published in G. G. O. No. 1600 of 33rd December following. Similarity, a medical officer of the Indian serious, it appointed that 1564, draws between his lifeth and 250th pears of serious on charge of a regement is 300, an office of the set x arrives is allowed its 825 if only doing duty. Between the 26th and 56th pears of serious, this founce if in machical charge of a regement, draw Re 1,000, the latter, its 1,900 of its 1,903 as he is below on above 2s years, though "doing duty only," on metrings of a company of Royal Engineers, or, stranger 200, 200, and 200 of the 1500 of the 1000 of the 1500 of th stell, on leave

I think it is difficult to imagine a principle more radically wrong than that which gives a medical officer full pay on general leave at any rate, unthout restriction of the amount of the letter and I feel pretty confident that G O C C before and after June 1864 would funnish emious evidence of the

close connection that exists between full pay and increased applications for leave

to the combatant will s, we office mirroribly drops but staff, and I full to see any good reson why the medical serves should not also drome more should not also drome more should not also drome more should not also drome a more should not also drome a more should not also drome should an G G O of 1867

Absenteersm would cease to account for 25 per cent, and the establishment right lereafter be pared down to a corresponder g exten

The subordimite medical deputment in all its brinches is chipped of one fourth of their pay viten on leave, and with these two illustrations in support of the principle I cannot conceive any substantal reason for longer dealing exceptionally with the officers of the British medical department, who entered the service since 1864, in fact, all who were not in India at the time when the concession was originally made Method Stores —Hitherto there has been a scale in force in the Native army hospitals , but, as it

had nothing more —influence over the section is easier in rocce in our brack miny acceptancy out, as in had nothing more than deprintmental authority the accounts banach could not exact any effective action by enforcing complicace with the suggested quantities I am however, oranged at this moment in framing a scale for every N the maintray change, and as it will be the dured outcome of my personal scrutiny of every indent submitted, and be further subjected to the judgment of the department through its most experienced officers, before being laid before the Government for authoritative sanction I trust that a very considerable decrease of expenditure will result from its introduction Smelton I think that yet consequence excesses of expendence will result from its introduction. Without a scale there will never be connected indicated and why there should be any healthy to the principle. I my self cannot understand, yet in 1870 the size of a scale was deprected by the Surgeon-General, British Porces, though soil of thome, we see it rigidly presented and closely adhered to Here and there I on willing to admit that, in the course of my survivary, that is two been refresh.

ing instances of giert care in the preparation, and clear evidence of effective cheel, of indents but the rule is slackness in both directions, and any expectation that expenditure in drugs will be shruply controlled by idministrative officers will assurably end in deseppointment

rolled by commissioner conserve masses with the control of the construction of the con expenditure in particular medical charges and to obtain full explanation. Without some such land-mark as a guide, I am hopeless of effective check. The opposition is founded on a perfectly enoneous conception, that in officer cannot, under any circumstances, obtain more than scale! not on the onlinery annual indent entainly, but its for or by circipent indent duly supported by the explanatory memorandum, from which the structuring administrative officer can at once convince himself of the propricty of giving or withholding the quantities asl ed for

The equipment of Native regimental hospitals hardly admits of much curtailment, but on every oceasion when a chance of effecting a reduction, without sternice of efficiency, offers at a nevel permitted to slide for example, at this moment, having seen reason to doubt the necessity of an ophikalmos-cope as an article of regime ital equipment. I have asked for the opinions of several experienced medical officers as to the propriety of making the issue to stations, not to copps, one for each station at which one or more regiments may be cantened. This will effect a reduction of more than 50 per cent in the

numbers to be indented for on England on account of the Native army

Duning lety jar, there will up out the seelest for field hospitals, I had before Government in my letter. No 415 of bil July 1878, those for units intending that lett so jet is series and during ordinary noting monomatics only a limited quantity of medical states should be caused with regimental losgitals. In was the establishment of field hospitals renders at quate unnecessary to have more with regiments than will suffice for the treatment of casual sick or wounded between any two intermediate hospitals, in peace the station or garnison dispensivy will afford a similar advantage

Sorgeo Gueral C A Gorden Principal Weiserl Offices British Forces Madras

With regard to the first portion of this question, namely, improving the efficiency of the motival department, the result of my personal cracers, among the personal cracers, as well as study of the history of, that department leads me to behave that the following are among the measures most required in Indn to effect that end, namely-

and surgeons, thorning them respectively to go home on level, as formuly us the cise, and on its expansion to reprin then respectively to go home on level, as formuly us the cise, and on its expansion to reprin then regiments. I can wave that us against against the system was on the sure of expanse. I likhose that the advantages attending it to the soldier, and thus to the State, far counterbalanced that single one

(b) Making regimental appointments prizes for efficiency and zeal on the part of medical officers, an essential qualification for change being lengthened experience in the country, and making the

medical officers part and percel of the regiment as heretofore

(c) Making it a distinct and defined part of the daily of a surgeon major of a regiment to sper intend and direct the methods of treatment of sich followed by no sing surgeons. I am more that in a way this is already provided for by regulations, but I would have it still more so, as also that principal medical officers of dustriets should be held responsible that it use carried out

The state of the same is the state of the same of the

contraction of the contract points points points to the contract points of a general system being supplementary to them

(c) Besides against I medical officers as above inducted, there ought I think to be a certain page. tion of unrithehed medical effects for the purpose of filling meeditunent positions connected with but of unrithehed medical effects for the purpose of filling meeditunent positions connected with Butish fromps, meeting crisulties and so on. In former times such postions were filled by tong medical officers of the Indian medical service, subsequently by staff or unattached officers of the may medical department, regimental appointments, as a removes occurred, would be filled from among them by selection

With regrul to the second postern of the question, namely, is to indicate expenditure other in personnel, equipment, for both in perce and in neutre service. I believe that, under existing condition, the very mu manual practicable for the necessities of the service is invinctuated in all the revocal man tioned, also that as with respect to personnel so with realized, not only would no further domination be protectible under a system of station hospitals, but, on the contrart, that with them an increase would be required. The precise considerations which have led to this convertion on my put we can * See au swer 5

mere, of in baracaby of anorzan B, and I would puticularly desue attention to what is state lunder

section (f) of that paragraph

I believe that, with regard to personnel and materiel during field service, no reduction is practical. having due regard to efficiency, than what is at present allowed, also, that very considerable latiful must be allowed in these respects according to the encounstances, topographical and charaterist, of individual forces, thus very different seales would be required for an active force operating, on a Burma during the runy season than for one, say, in the December 1. North-Western Provinces during the cold senson. Neither is it a safe exterior to compare establishments required in India with the In western countries. In the former every requirement connected with the sick and wounded of force have to be maintainted in connection with the organization of that force, in the interior to as philanthropy of individuals and associations becomes on occasions of war laist, no account of cities stores or personned thus brought into operation appearing upon the officerl occases of flore en testained for the army Bearing this in mind, I do not see how any reduction is practicable in regard to criber as connected with the army of Indra in peace or in war

Dr G Smill up Sergen General Indian Medical Service,

The efficiency of the Madris medical department vall not be in proved, but on the contrary impaned, from a professional point of two, by separating the multius from the civil binuch of the service. He reason for this view has on the surface. Military hospitals, is a rai, do not afford that amount and variety of professional practice which is

on all hands acknowledged to be absolutely necessary to the preservation and meterse of professional expenence. In the Indean Medical Department, as now constituted this non interest in processorial experience. In one material security departments, in not constituted to a grave classic studies is worted in large treasme by the employment of the military never in on outly not become dates, where last fundaments is not an action is surject, and mustry process on on outly not become dates, where the fundaments is not not never in the constitution. The constitution of the minitary is much to find minitary branch.

The constitution are a fundamental in the constitution of the true branches occurs a visual to reverse the constitution of the fundamental in the constitution of the fundamental in the constitution of the fundamental in the constitution of the fundamental in the constitution of the fundamental in the constitution of the fundamental in the fun in time of war, a reserve which, constituted as it is of military methed men, is always it inhable when as a purely civil department would not be available in time of war. The civil chiment, the value of which I rite very high, provides many appointments regarded as the prize of the versice, the civilence of which inchoses a higher class of candidates to compete for admission to the Indian service. Its question of reducing the expenditure on the personnel of the Madras method department has already occupied the attention of the Madras Government, and the reasons given for maintaining the department at its present strength are fully defult I in 1 per

† Not pented ân. B t

It would be well to consider how far the person nel of the medical department of the In take amy is susceptible of reduction. That department in this presidence is upon a permittent war footing and has an administrative department and a proportion of sensor to purso models of losses a model beyond the repartments of the 1 rependence of 10 Indian model at day the net met.

keep then reserve in this country, a here it can be most advintageously utilized in the civil department

but the reserve of British medical officers cannot be utilized in India, but might be probable inthical in Lingland, where at this moment, the want of medical officer is several; felt

against, where we are a consensus one was a consensus a recovery and an extension of the first method to the mode, subtantly and and the first method to the mode, subtantly and the start method in the spiritual of the mode that the subtant leave mode that the subtant leave mode that is subtant leave mode that it is not the spiritual of the mode that the subtant leave mode to the 5 Were a local Puropean force record lated the Indian resident legacitacts until he sill pleased to receiller force changes and so complete the field of the profesional expense coes in he and eval branches, would man this the cit of

of the ripol similar parts of the ripol similar

spothernie, and the price charged to lagher than at the corresponding that as flir the first arms and Arra I there there is no competitive, into sail retailing the lagh. It is distinct that the lagh is the policy of the sail that the lagh. Arms and Astr. I more tours is no compension; tree soil program on the men and a significant adopting a less expensive; siem as descring of consideration. It might be that the country is consideration and an artifactual between Madris supplies of molecules and of instruments at whole the prosecular forms of a significant program of the program of th occurrence arms as many a support or monumer and as assumation at wants of yet a first in commission, and an irragenced of this find if effected, we fill proce to be disker as as a fall fear in it. Is repair the hopeful equipment as contained a scale corresponding with text in the first was recently amounted for nature. The sends scans to be being titled up and a count of (891) [Appendux IV

The hospital equipment of troops on active service must depend largely on the physical character and must of the county in which the operations of war are to be controled. Lech company, must, in this sa in other mitters be the subject of special scolar and of special surroughements if all require-

ments me to be satisfactorily met and provided for

All medical equipment should be as held and portable as passable, and recent experience will be of value in directing this state to many points in connection with the transport of the sol, and of hospital supplies. Some progress in this direction has been raide during the present. Afglain war in the substitution of painners for field medicine chests, in the reduction of the supply of medicines, in the selection of the most useful discrepancia agents, and in the adoption of armagements calculated to secure diffusively with lightness and posibility. War necessitates special arrangements, and these should be althorated and perfected in time of pursos.

APPENDIX C

	Ind an service	But sh servece
Avesage strength of the unsy Administrative medical officers Executave modeal officers Of creentine modeal officers Froportion of administrative to executive modeal officers Ditto coecutive Ditto unit ary to card medical officers Ditto surgeons major to surgeon	30,700 7 67 92 87 73 1 to 22 7 1 to 4395 7 1 to 193† 1 to 0 72 1 to 0 81	10,880 5 1* 43 39 5 1 to 83 1 to 247 1 to 622 1 to 0 12

No British med cal efficer can by rule held a cryst med cal appointment. The one noted in the list is a temporary and and armagement.

Deputy Surgeon General J. M. S. Fogo Offication Surgeon General, British Forces Bombay The efficiency of the med all department would be improved and the expenditure basened, I conserve by the system of station bountly for British twops as before mericande, and expenditure certainly by colerating and expending the applicacy class and pleang them in minimum where there we Natures only to treat, as well as having one applicacy with each Nature regiment

The Luropean officers, civil and military only should require Luropean medical attendance

Everyone must see that the dual system of medical administration is an anomaly, and that there should be a reduction in its personnel

The medical store depots should be under apotherances
In times of war the medical services in India would require to be
augmented according to necessity from home

Dr W G Hunter H D Surgeon General, Indian Medical Department Hombay (e) On the geomais of efficiency and someony, I would stongly obveate the destributive of one medical service in the prevailment and another plant in Indian medical service would require considerably less augmentation of its strength to need the requirements of this service moder the proposed now other of things, that it is recurried with following the contract of the companion of the proposed now other of things, that it is recurried with following the contract of the proposed new other of things, that it is recurried with following the contract of

and habits of the people of the country, which is tolkness are conversated with the language, customs, and habits of the people of the country, which as purely in lifers service could occur, that the critical and military duties herefolore entrancial to it have been preferred elicently sold entactionly; the conclusion is that to it makes the service makes the conclusion is that to it makes the service makes the conclusion is that to it makes the service makes the conclusion of the presidency all and of opmon that Government angelt trained from the churge of the Laropean teops serving in the presidency to it with the falliest confidence that the duty would be followed; and considered and consideration of the confidence that the duty would be followed; and the consideration of the suggestion of the control of the statute height of the segmental and the field longitude of the segmental and the field longitude of the segmental and the field longitude of the segmental and the field longitude of the segmental and the field longitude of the segmental and the field longitude of the segmental and the field longitude of the segmental and the field longitude of the segmental and the field longitude of the segmental and the field longitude of the segmental and the field longitude of the segmental and the field longitude of the segmental and the field longitude of the segmental and the field longitude of the segmental and the field longitude of the s

Third of each a massme as the clore, suppose a guess consignantion of the Butch and Indian moderal departments (as here here reported in medical and other pournis as not unlikely to take plues), i.e., that the unlikery hunch of the Indian medical department should be fossed with the British to form one service, the one's limited treatment are stated department. Such a measure, life much form more service, who can be must be a massive whether on the source of efficiency of occasions, and I critically regard any suggestion. Which would direct the early from the unlikery department as programs with critical to be the interest of the medical officer and the solder sup>†</sup> To s mt o has reference to the cuture execut we strongth a rel and m l tary

and varied expensence, both medical and surgical, required by the medical officer in the various call hospitals of the country On the other hand, the professional duties of a medical officer doing military inspiring on the commany. On the other forms, the prince-court ansies of a medical other doing midster duty duting time of peace are very restricted and hunted. The sepsy is a pulled life, and his needs in life and other causes do not render him so susceptible to disever as the physically note, and all fiel among the civil population. A capital suggest operation is rare and exceptional, and the protein study of model dustomy is inturally a dead letter, as the instances are exceedingly once where the relatives of a deceased sepoy util allow a post mortem examination of the body. Were it not cy relatives of a decreed egory unit allow a post mortom extunction of the body. Were it not ex-bowerer, acute decrees resisting in each tycocycle from equicance diverse as choicer, as compartinely are rare an Neitre militry, houselful, that the opportunities for stairing them course and to like see for as to be of no need practical value to a model officer. After a lew years spent in unihary coupler, as intelligent officer seeks to return to earth work, from which, there the type of five years, he may seem, for various reasons, need to militry duty. In this way professional "non-lodge set opty names the officers of the service, and which a spentrain between the earth and unitry model-dispartments would prove an insuperbile burner to. The professional efficiency of the medical colores of the second and accounts to the color of the non-level of the country is indeed maintained and secured by the civil institutions to which he has access, and in case of micro interest multi-more and secures of see even institutions to make so are see a, out in case of micro due to be revenued to individe due exerts a subtray effect. Deal department in its way power of service in munitating this high straded of efficiency which the method off ere of the Indian mobile department is as a body, and omeloged to posses. I about user with superbrasion may few leaving this presidency on utile survice provided with medical others whose expenses bill that derived solely in military hospitals where disease, generally speaking, presents itself only in its simil; forms, and where a surgical operation of any importance is rurely witnessed. On economic grounds too a partial amalgamation of the two services would, as previously stated, he a mistake. It is obvious a harden changing that the term of the construction of the constru regiment of Native infantry or wing of one or more regiments of Antive infantry is stationed, the civil surgeon could perform the entire duties without difficulty, did one medical department only one cart suggest coult, person the entire clause various antibute, that or emitted tolerations can cart. Whereas with two drupt limits not less than to medical olivers must, be employed for the duty. I could also observations in illustration, but I have probably stried subscent to show this vice medical deportments in this country are monaphable with economy and efficiency. It is a question, too, how far an unalignmentous of the British and Indian method services might be defined that of the recruiting of the latter, and any measure which might possibly distinb this—and but I'll would be required to do so—should, tentare to think, be very carefully considered before its acted to (6) Consequent on record of Government of India Resolution No 5385, dried 20th Septem

her 1878, I submutted to Government certain proposals affecting the commissioned modern leave, the opotherary's department and the assistant surgeons' class which under Resolution of this Governmont, No 3032, dated 1st August 1879, were forwarded to Government of India Under the school skelethed under clause (e) mray of the suggestions made in this proposal and accepted in Government of India Under the school skelethed under clause (e) mray of the suggestions made in this proposal and accepted in Government of Section 1888, and the measure of issuitants suggester class. Others, on the other hand, must, of necessariy to abundoned, as, for exam

ple, the reduction in the fixed strength of the commissioned officers, it , 113

page, are reactions in the lived strength of the commissioned outcets, if , 113 (c) I. Hely introduced a new height [cultured] into the sixt ox high way fred just with the late Mediterronen Lapschiton, and subsequently with the Bombry throps sex mg with the Knollwist column in the Afghan Wur. Depthy Surgeon General Beeth; Johann Adhenki Dig arthuren, Hombre estilifishment, who was finnespi Alechet Officer of the former loves, reports way, fiven'ny one's middle mental more security. Depthy Surgeon-General A Smith, Army Dieferki Department, and Franchis Medical Officer with the Arabhar column, in 1 letter No. 215, dated 14th 5/13 [1577, report, but been no much impreced with the authlish for field service of Such the 5/13 [1577], report, but the surface of the su chests supplied to troops belonging to the Bombry presidence as to completeness of littings and of the materials, they contain, that I have fully resolved to recommend, it the close of the expedition, that

materials they contrue, that I have failly resolved to recommend, it the close of the emphatics, by annular transcenters should be adopted for the Bungal previdency?

The enquencial consists of a field method companion (A), two field primers (B), for new focasts (C), and a devisioned box for continuing apparatus for latters and disfortion (D). A description of the continuity of the continuity of the continuity of the continuity of the previous of the commission, and about the properties, which I beg to forward for the information of the Commission, and about leg I the heart that the engagement proposed for the subschinder method department by Government of India New 476 and 16, detect a type color of the subschinder method apparatus of the continuity of the

the point of being carried out in this presidency, and when completed will, I m of or mion, me all requirements

Further sugge tions 11 congliance with paragraph 4 of confidential letter No 115, dated 9th Argist 1578, by Dr. W. G. Henter, Surgeon General, Indian Medical Departs est, ha sta

I am of opinion many of the recommendations of the "Committee for the Arm "felse".

Department," might, with advantage, he adopted for the labou Michael D partment and yet cularly those numbered [9, 10, 11, 12, 15] and 11 of 1798 24 of the report. We call so that we make must noted that to my now make table the labour for 1 mayority of the best students of the moderal the states and to not the Department, an after a 1-y, respectly of the best students of the moderal is hooked to its real y, and ranker the entrance can be compared to committee on a point of the labour for a constitution of the labour for a lab tion really a competitive one, which it can I make by claim to at present

uon run) a companio cons, nomen de un indi try chain to a present

2. Another recommendation mode by the Committee a confine of consultration register,
of a method effect to rive site 20 years' service on 21 a day, allowing 20 another fail and
2 trope to count vs review in the typool. C. a deeing the goal acting the recent model it.
2 trope to count vs review in the typool. C. a deeing the goal acting the recent model it.
3 unificate, the goal of this also the mercage to returning allocances would be of little moment.

State

Dr Colven Smith Deputy Sar peon General Indian Medical De partment Madras

The Madras medical service has been nearly rouned by the admission into it of East Indians, the greater number of whom have turned out very hadly indeed and many have had to be got rid of for drunkenness and in fact being worse than useless in the department ordered on field service, the r country generally fails them, they report

on made to go, they solid ond, and use overy solid length gas in the root of got off going, or if they are made to go, they solid ond on up good. I am if enter the military service. These remarks also upply to Nature. However, we have that first other, no Madmis Nature having as yet entered the commissioned service. But a Benguli lately acted the man and the commission of the service of the se

as I have above depicted when I ordered him on service

I would stoogly recommend that a cress uncovenanted medical service be established which would in every way suit both Natives and Dast Indians and on no account should they be allowed to pass for the military service. Into this service let men of good character who have passed a university test where educated enter on nomination. That such a service would be highly popular I am convinced, and they given all the smaller civil stations, the medical charge of which are now held by anothercaries. It would be far better and wise if or all that such a service was established than to allow Natives and In your near treases at present to eater the military service after stalying in England 5: They often leave their claim state of the continuous their claim state. The profit of ind companies, when they again to all relate of the companies, when they again to all relate of dimbing Eq., which illumity leads to their run.

I am convinced that such a service besides being very popular, would be efficient for furnishing medical officers for all the smaller civil stations. The salary of those in it to use from Rs 150 or 200 per mensem to Rs 500 or so, with the usual uncovenanted pension according to length of service. The present modeal military service would be greatly improved were nomination ago a returned to, and an examination before appointment as in former days. The medical officer should in every case serve at

communication of the superior regiment on find survival in the country.

If an extra penson or bours was offered to old officers who are only writing on for the day to re the on a competency to he on, some would no doubt cattre, but if all leave was allowed to count for service for penson, as I understand has been recommended, and has already been g antid to the officers service on persons of a interession has been recommended, and the account of the late Markets actility, many would retain, thus counting a treat relation of expenditure as the sensors are those who draw high pry and the work might be will performed by junctions. It would be certainly be a great boant it the order allowing all leave to count as service for person up to a certain limit were extended to old officers some of whom after doing good se vice in the held during was had to return to England in order to regain then health, and are now trying to serve on for ponsions on which to live at home

There was never to my much shown the least necessity for two administrative medical establishments, that of the Butch and Indian and eal service. Wien there was only one it seemed for all ments, sufficient, therefore to reduce expenditure. I would recommend that the administration of the medical department be again left entirely to the Indian medical service as being much more likely to memoral updated sets to a gain that cannot of one and in memoral set for a so gain that there have been every on in this soundly and a bow when they entered it looked to be head of the department at the end of their service. When the Hon be I at India Company service was taken over by Her Mayesty's Government all the rights and privileges were guaranteed to the officers in the service by Act of Painament

Let the administration of the need ed department be as formerly rad in number as at present are, a topic property of the number of the need ed department be as formerly rad in number as at present are, a topic need to it if it is necessary their devices, with an department from the British service, to perform, but if it is necessary their discretional be a deputy surgeon general of it be British service,

let there be only one for the Madris presidency where there me so very few (British) European tacops, and if the fine old local European troops are resorted to there will be still fewer

Six deputy surgeons general are indeed a very small complement for the duties they have to per

form—dutes which ever the State a large sum of money yersly

In the 1sts Reyal Warrout an extra passion of £,50 was given to all surgeons general who served
that grade for the years and to denyth surgeons general £,0 on the same toms—It is yery difficult to see why this was on these terms given [as it related promotion, which as far as possible should cult to see why this was on three terms given (as it isluids promotion, which is fir it is possible should be expedited in chemens, set [as and not at £20 for every poin in the gride of deputy suggion-general; as has been often recommended. No man having once entered the administrative gride will on any recommit unless from due necessity given up the held on this extra personn. Diem then men us on bed health and feel unable to perform that duty, they stack on no they loss all unless they sense four and at helf years in Indian or duty. Would it not be far better to give 800 for each year served in this grade so that it must would be year in proportion for the duty does in it in grade of dept is suggested. The sense is the sense of the surface of t acted on, would much reduce expenditure, as men would not serve on for the higher rates of pensions,

as they are now obliged to do

If a change in the administrative grade is contemplated and reductions be made, these in it

would be req ued to be pensioned but even this would perhaps be a saving to the State

There should be a minked saving in methed stores by the reintro button of the first second, and thand cless indents or andests in accordance with the requirements of heighth 26. The power of sendenting methers should definely risk with the mether) dynamistrature stag, and no receive officer

should have the power to do more than recommend indents to be sanct oned.

There would be an enormous saving in home charges if all stores were got out from England. through local agents. A first rate firm here has lately offered Government to supply everything required at trade cost and prices, and 22 per cent extra for their trouble. This would be an enormous saving were it in force, and extravigant home charges would be reduced much

Dr J Gubbana Deputy Surgicon General British Forces Mecryt Circle

The present state of the department proves the impossibility of General Bettus Force Mermi Close Porce Mermi Close Technology and principles and any other way on the contrary, mercures the pry and principles of the sal ordunts method department, menting on a higher student of qualification mitrodes over whole for the sal ordunts for the contrary, on a higher student of qualification mitrodes over whole for the ready x corps of trunced such attendings extend the state on horse the process of the sal ordunes are the sale of the sale of the sale or the sale of the sale or the sale of the sale or the sale of the sale or the sale of the sale or the sale of the sale or the sale of the sale or the sale of the sale or the sale of the sale or the sale or the sale or the sale of the sale or the sale or the sale of the sale or the sale of the sale or the sale or the sale of the sale or the sale o

perhaps a small evening might be effected in drugs. As regards hospital equipment, one has but to contrast a civil hospital or infirmity with the meanest multiary one to be convenient. Then is no leaving of equipment in the latter.

Deputy Surgeon Ceneral S C Townsend Princ pil Medical Offi cer, Auram Lield Force

The short and limited experience which I have list of the werking of the British medical department does not enable me to off rank confidence any suggestions in the way of improving its efficiency of reducing expenditure

The expenditure in Durigen in grids by a rea to me excessive. The system of chief by rale vide scales is complete, so far as i can be made so, but the demands for mediances and horstal conference are so greatly, that the sorten must necessarily be repy liberal, and there is calcarding for it was for economy within them. I comony of the land, however, must rest with the excentre and dimension that the conference of the conference of the size of the land of the conference of the size of the land of the conference

committy in the expectation to a storal volume in the process of the power of the factors and the power of of the administrative genders not be factors of the power of of the administrative genders not be effected compatibly with efficiency, or with justice to the cleans of all administrative genders not be effected compatibly with efficiency, or with justice to the cleans of all compared with those of corresponding gender in the cust with a factor of the control of the process of the control of

The greeter portion of the executive, grade of the Budin meloch lightment is it practice couple in oxid employ, the proportion heng should now securities to three sevenths in militive employ. In oxid employ, the proportion heng should now securities to three sevenths in militive employ. In the cut of braind of the melocited service them has a first persist hen extendings to an inner of upon ments, and its every year the situations of mainthly receil more plumly the originace smaller supervision will be meen agently pressed upon the notice of Government, and the inner estimate supervision will be meen agently pressed upon the notice of Government, and the inner estimate is supervision will be meen agently interest. Native agency is largely emplored European legit. Native agency ingely in this work, I will wherever. Native agency is largely emplored European legit. White agency is made the cut melocal officers for the performance of duties of this nature will inner est and that in many large towns and distinstit speed maintage officers will be required. Electron in the out in braind of the nobeled department I before

to be out of the question

The greet pressure of the demand for medical officers during the 18th conjugan, and the new the first big officers from early complex to meet it, shows that an time multipy brends by meeting the present system, by wheat the medical requirements of Native pregnents are provided for, reduction number to secretary prescribed. But it below in the cost of pressured megic be effected by the solid tation of Native for Lursquen medical officers in charge of Native requireds, and Lurs of quantities that the means might be clupted to a considerable certar without great determent, the cluestry of the great medical officers in charge of Native requireds, and Lurs of quantities consisted at two multipy and one carriag regiment, the enchest set of for the green the reduction of the present herquid as shown were introduced. Tall may for use time, a vision where the X-time green consisted at two multipy and one carriag regiment, the enchest set of of the general to get it with the need of the store force were life in the consistence of the present of the p

of field service. The Luigeon medical officers who had held charge of Native general hospitals would become brigade field suigeons. The organization in force in contonments, but somewhat strengthened in numbers, would in fact be transferred to the field, and with the amount of European strengments in numbers, we'll in that be transferred to the field, and what the "Brother of Duropean approximant would, I believe, seen ever efficient management and eats of the end, and wounded Another question that will arise will be, knopean metical officers being no longer appointed to the change of Nature reguments then will extend the low officers of the Indrian Modella Durytments having military experience from whom officers for the change of Nature general hospitals can be esheted, and how will these very important changes be provided for? To stone years the Indrian Modella Durytments would furnels sufficient competent officers for the puryose, and then experience of Indrian Modella of Nature metalest establishments would prove of great always give in starting and composite the new system. But eventually the European element would have to be provided by the start of the three provided of Nature and the the new system. the Aimy Medical Department and thus the appointment of Natives to the charge of Native legi-ments would lead to the extinction of the Lubra Medical Department as a multiry service. But if the scheme for the reorganization of medical services which was submitted to the Secretary of State for India nearly two years ago the chief features of which were the creation of crivil administrative appointments under the Local Governments, and amalgamation of the administrative grades of the Britais and Indian Departments, at the same time pleaning ill metical offices of the Indian Departments the control of the Surgean General, Britais Perce—if this scheme has been approved by the public person syst in that, the sentence of exchanges as a mittary serve has been already presed on the Union server for I venture to express my omnom that the scheme clubded to an abult server has been already presed on the Union service for I venture to express my omnom that the scheme clubded to an abult server as been already presed in the control of the contro measure which cannot prove final, that it will not work without great friction that the jealousies which have always existed, and which appear inseparable from two services working in the same field, which neve aways casters and which appear magnitude rather to the dominant service on the privileges will containe, that attempts it enconcliments would be made by the dominant service on the privileges of the other, which would keep up constant striction and ill feeling. It will, I believe, be better to at more form a distinct ortal medical service and no Indian mobical staff copys. The medical staff copys would consist partly of Direptons and partly of Nethers A first, unit is sufficient number of Native surgoons could be truned, the European element, would greatly predominte, but eventurilly the number of Native surgeons would exceed in the proportion of two to one The strongth of the medical staff caps required for the Bangal Native unny would in round numbers be about 100 inflation same to 50 fluorpains. At first also the European element would consist entirely of officers directly from the inflation and the same of the same and the same of t sufficient to puss the lower stradyd examination. Every officer officer entering the striff corps would be required to see one year in a Native general lossed under a center officer before he would be extilled to the old argo of a Native regiment of general keeptol.

Officers serving in the staff corps would be entitled in their turn to promotion to the administra

tree grade, e certain number of cucles being seave of for them and their claims to monoton would be decided in by the head of the department in India subject to the approval of the Commander in Chief in the scheme that I have now sketched I have not thought it necessary to enter mundly into details, indeed, I have not the necessary information at band or this time to combleme to do so. But if to twen-dopted T believe the result concennently would be this substitution of ions 80 to 100. Native augeone it shares inaging from 18 100 to Rs 2-20 per measer for Europeu officers at salvans ringing from 18 300 to Rs 2-00 per measer for Europeu officers at salvans. Indian med cal department would of course radically effect its constitution but there should be no difficulty in reconstituting it on terms under which the interests of the present members of the service would be secured from haim, and which would attract able men from the British schools

Surgeon Vajor T G Herelett c 1 k Act of Dej uty Surgeon General Sin i Dis sion

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Have answered this question partly in the scheme* I have forwarded Suppose upper I of tessists

11 "Yes marked this quickton prity in the selector." I had forwarded

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under the Bombay command -

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eletzal f Fres tees 18-28 te	0 6 % 1 0 4 5 9 60 5 7 1 000 657 5 8 5 1 1 206	611 ° 8) 639 45 614 614 614 614 614 614 614 614 614 614	101 101 101 103 103 103 103 103 103 103	0% 1 1 58 6% 167 1 10 1	163 179 100 190 68 116 61 266	539 1 1 0 8 10 C 6 C1 1 110 9 45 0 71	5 110 0 63 1103 40 1113 9	819 0 1 1 1 1109 20 0 16 3 49 1 49 1	1600 1516 151 151 151 151 151 151 151 151 15	499 4 179% 0 1 4 8 0 0 2011 3 3 4911 219	4 7 1 164 5 50 5 7 1 188	6.219 10 10 60 51 60 51 60 51
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In 1877, when the admissions from mytunous fever wer, lower than m my of the proof agine except 1874, it is even that 30.2 per cent of the forth admissions during the terramone imports if were crued by malaral favors and, as I then a id, it would upper that measure to term it is assuming crues are urgently needed.

Veneral diseases also always occups the second place among the paracipal diverses what of European soldiers. In 1876, 196 men in every 1,000 or 111 per cent of the total what was well and up during the year with some form of tomeroil diverses.

The following table shows the annual loss of service and strength among the Lurepeas to under the Bombay command since 1879.—

		L	048 OF S	TRV 1CE	Ī	Loss of Stream			
	İ	Avera rat o p	e annual er 1 000	number of ont in hospital	Averag animal ratio p.: 100				
) ean	pouge	ojui	druly	og m m pid m	101	Invil day			
	Averige strongth	Admiss ons 1 hospital	Average a ok	Averige n days ment	Deatl sman	For el unge of el u uto	For d		
1972 1873 1874 1876 1876	10,818 10 665 10 529 10,181 10,116	1 588 1,316 1,286 1,404 1,317	50 53 51 53	18 10 17 72 18 54 20 01 19 18		13 06 36 11 35 39 35 30 37 77	9 10 12 1 7 3 1 60 9 65 151 97 10 at 11 35 15 3		
Mean	10,163	1,382	52	18 77	14 90	J5 13	815 455		
1877	10,061	1,301	55	31 17	11 63	36 67	111 15"		

In 1877 in the hatne runy mulino is fivers depinted the Government term or with of the rin of 10,000 separa of the Bombhy army out of a strungth of 20 561 km is so that onto the rin and 455 were admitted into heartful during the year from this one care alone. It is alter for a strongly of opinion that it would be the functionary of the rin of the respective of the respective of the respective provided with healthy betablations on health size. The six of the respective to tomesta have been exheted without a reference of country reparaments. Where the total effects force sent to colore the piece were priched, if each we hear I trunche at a different he server in the remainder of

There is nothing or expense to Government as precutible dresse. It is the wir diffusion from the state of the

enrgeon Waper 7 1 ettali V.D., Frv. ner of Medical Account Bengal I here always considered the custones of two medials symulus country as opposed to the lest, interests of Governo exit thind in needs not much detrostration to struct bus so that possibly absorption in this per ordinals at all the production of the country persons one medial in the company of the country persons one medial in the country of the little of the country of the little of the country of the little of the country of the little of the country of the little of the country of the little of the country of the little of the country of the little of the country of the little of the little of the country of the little of

Appendix IV

(897)

part of the mmy European or Native on both, at the sumetime which is not the care at present In garnison this last would be of great advantage and be largely economical

Again, the cost of pressage of British officers to and he would be would Thery regiment on lunding would have its appended complement of medical staff attached, which for infinity or early in ordinary times would be not more than two offices

The administrative grade should be selected from the Indian service on the same grounds There should be a revision of administrative eircles and now that the civil medical administration is provided for, the present limits of men will be capable of extension. Thus a great saving may be

is provided for, the present hunts of arc will be capable of extension. Thus 2 great saving my be effected here with perfect efficiency.

There may possibly be some smill economy effected by diminishing the number of dugs now mitse off and last, but I am not hilly prepried to give a positive opinison on this point. The practice of medicine does not admit of presentions by rule, but I mountain that a good practitioner does not wrate very many daugs. Then, again as to surgical equipment. I have nothing to suggest on this bead. The present scale for multicary hospitals was propried by no m 1874; "und has been found sufficient to onexer every purpose and to be economical."

The model-of depot are the on number a squast I've in 1860 70. I do not think a lesson number would suffice. The withdrawal of the superior cutders establishment at the time of revision, from the moreous olders is may be counsile a month. It should not be necessary to send harves, &c.

numerous votant sum to the watershall as a second of the standard of the water of t as a cognitive me in our say of main interacting perfect money of the mean time to pleasant 2 cm sailer, to incended, and the person thoulding, which is too small for present requirements and further it would be very undescribe to each a large planment content laboratory in the heart of the form even if available space exasted. At some further time it may be a subject for consideration whether the presents by thing should not be seld and the depth removed to Garden Reach. At such time in extension of the pharmaceutical laboratory should not be lost a ght of

Surgeo Major J H Porter late n nedscal clarge of Field Hospital 1st D vision leshawar Valley Field Force

To improve efficiency, the existing medical departments of both services slould be unalgamated. This would entuil all medical officers coming to this country first lettining the language, which is as essent 1 for the proper performance of duties with Birtish troops as with Nataves All medical officers on arrival to be instructed in the internal

conomy, routine, and customs of Anive military hospitals, as well as L repean. The want of this knowledge on the part of medical officers I found most meonvement in the late campuign in Afghani stan, where from emergencies, I was obliged to detail a medicul officer of the British service to look after Natives who objected on account of not knowing the language and customs. Again I had to detail a medical officer of the Indian service to look after Europeans he objected from not know-

mg the rottne of European military bospitals

given you be priving station on significant special times would be greate, efficiency and less expenditions. There would be freeze medical shootmarks and servants required. It would be unpresently to muntain separate hospital equipment for each regiment, corps, or battery as on one or the other of arging stations, they would only have to take with them a small supply of medicines or stores for the march,

leaving overy thing stunding in the station hospital for the regiment or orps relieving.

The system of each regiment carrying with it its full equipment required a large amount of

tunsport, and it uses there is a tway's less great loss from being less alone to tunsport, and it must there has thought some great loss from bell less alone to not necessarily of the state of the sta required when a regiment is accompanied by its sick on active service. The field hospital system would afford greater efficiency and less expenditure as regards personed, medical stores, hospital equipment, and transport. I beg to submit here a statement showing the establishment and can age required for a force of 2 840 European troops on active service on the regimental and field hospital systems strength is that of the 1st Division, Poshawai Valley Field Force, in May 1879

By this statement a reduction is shown of 106 servents and 138 camels on the field hospital

system as compared with regimental

Statement shown in the establishment and carriage required for the undernentioned force of European troops active service on the regime that and field divisional bountal suite is

1 Buttery, R H A	•		-	150
1 , ΓΔ				150
1 , ГА 1 , ПА				90
1 Regiment of cavalry				850
3 Regiments of infantry				2,100
			Total Reg montal system	2,840 Field division al hospital systems.
Hospital establishment			226	148
Put vey ors			7	4
Purveyor's establishment			60	85
		Total	203	187
			Cant le	Camels
Medical stores			40	17
Office records			10	ì
Hospital equipment			177	ออิ
Cool ing niensils			2,7	3
Tents			00	
Acrica			66	51
		Total	300	162

To make hospital transport efficient, and with a riest to economy, it should be entirely and control of the responsible modernl officer, in the same manner that heres are under the control of offices communiting a bettery. By this means, men and animals would be properly carel f there would be fewer cast alities - The absence of this arrangement was very much felt damp a recent compagn in Afghanistan where transport animals were shifted about from day to day set 1 many matanees were neither watered nor fed

When required for any movement, indeeds had to be prepared in the usual manner which had to When required for any movement, indeeds had to be prepared in the usual manner which had to be signed by numerous officerds, and when sanctioned, it was sometimes impossible to obtain the some

without the greatest labor and trouble

With regard to the establishments of medical officers and subordurates for the regimental and f hospital systems for the same force as above stated I beg to submit the folloring statement, in rf 3 there is a reduction of ten medical subordinates by the held hospital system, I do not comit as reduction could be made in medical others -

Statement than 119 the establishments of medical officers and in landinates for the undersentioned Lunopean troops ordered on actue servee or the regs or tal and fild devisional how tell use n

l Battery, R H A				158
1 ,, FA.				Lat
1 " H A				93
l Regiment of envily				350
3 Regiments of infanti)				5 100
		Ictd	**	2,840
		Regranafid s	rstem.	Feldi n bapidsa
Medical officers		· la		15
Medical subordinates		23		15
		-		-
	Total	3 8		25

For the more efferent working of sixtion germson field, or base hospitals, it is eventful that is Indian urmy hospital corps should be organized compared of Daropenns and Nat ex light! present arrangement field and base hospitals are supplied with a Furo can staff consisting of logic sergeant, pack store surgeant trusport surgeant, and water from the runks of some economic, and bengamby the short segment a compare regions, "in which from the time to want regions," or show men feel they are long then time by being so employed, their premotion long stephel the regionent from whence they evine they perform then hospit duties with unsufficient requesting to be permitted to return to data. Indeed, the men who performed the slots set with the field hospital, let Division, Feshman Valley lield Torac did so us of for II, that there was a localize hospital copes the staff a odd have been aboutly frame I to their d two, and d n there we a regular hospital copie the stall a rotal have been already frame. It of that of they will not would have been obsolved frame to the date of the stall a rotal and the stall a rotal and the stall and the Native arms he quital corps with mercase of jay for efficiency, that the seel a notified it of and that the ever or a number of servants employed gill be considered by sed act and con one of cit

These everants would be used the Furger name to be substituted and of the control and the second to the furger name to substitute the substitute that the furger name to substitute the attention of the Country and that the name merely mentioned the herdings with a year to stiruct the attention of the Country was a fall

it is worthy of consideration, not alone for efficiency, but for economy

Surgeon Wayor & Martin Arm 3 Medical D partic ent Lith The adoption of the general system nould effect a great same not at the e st of efficiency. It possesses the advantage forms ton and of decentralization, at its include and economical

If station hospitals are established in this country, a regiment danging station is odd occurred in held would only used a part of primer, field comprising, and car I nesting the part of the point of 1 part of the point of 1 part of the point of 1 part of the point of 1 part strong and healthy men reads to much or hight

On record at their destination, they need inly bequisit refreth egapped and baren

would save the expunee of dise, may material, So, fout the country on from of \$100 and.

In time of viral held to quitals arranged in sections, to estimate the education of the country. the expense of regunental loops the

At present the tour of an officer of the Army Medical Department lasts five years, during which time he naturally attains but a modecum of Indian experience and a very slight insight into Native habits or feelings His knowledge also of climatic and local influences will be limited, and at all rates or reenings are animately one or cumante and force numerates will be limited, and it dill times he are an unsettled mrit, possessed with an enment descrip, talkes he be a very sentor officer with large allowances, for the completion of his tour of foreign server. Formerly, when the regimental system for medical officers obtuned, it could be argued that it

would be against every rule of discipline or hygiene to cause a regiment newly arrived from England to be medically treated by an officer personally unacquainted with the history of each man. But as a regiment is now liable to receive an entirely fresh medical staff on arrival in the country, it may well he held that it would benefit by being trusted by members of a body who looked on India as their home, and who had studied the discuss peculiar to the country

I have head it contended against this proposal that a medical man who may be long from Uncland is and to allow his professional I nowledge to rust, and not to keep himself up to the home standard But I question greatly whether the Indean Medical Service, as a body, compares disadvantageously in professional knowledge with its sister-service

In fact without maling any maidious companison, it may be considered that the generality of European officers would profes being treated by an Indian medical officer to one of the Home service

The Home service has inturally a right to demand that they should have a shale of the administraitive oppositioners in India 7 to 1907 as many of their younger and a contract of the willing and the contract of the contr

nouse women consequent, pass, see wearconvised that demands for officers for India from the Homos excrete would for one release a large body for employ ment to the Home and Moditerrement sistance. At present the Indian service possibly from its being local, is " favorite, and he is no difficulty on the thorouse satisfactory recents. The court ir ye is the position of the Army Modesil Department. The placing of all theory in India under the Army Medical Department would not appear to tensors up drawbed to the Diene service. "Do'd by it would only vegarate them—by caming a larger placing of all toops in India united the Army States Department would not appear to be smooth only drawbed to the Home service. Polythly it would only aggraved between they causing a larger number of offices to be required. An lyth thought tend to check the present readment of students to compete for the Indian service, and would most likely place the Indian of comments in a very difficult position

Were all duties given to the Indian Medical Service, then the European officers and their families of Native regiments might be standed to by the staff of the station or grinson hospital, the Native soldiers being treated by a superior class of Native medical men—a constantly increasing and satisfactor body, who could be super-vised by either the doministative or estation bosynth medical men.

The necessary enlargement of the Indian Metheal Service would not, I think, be difficult, as volunteers for the Army Medical Department might be called for,

COMMISSARIAT

What are the main differences, so far as you are aware, between the Bengal Commissariat and those of the other presidencies?

Colonel J I Willes Comm ssary General Bengal

I am not aware of any material difference beyond what is necessary owing to local circumstances

Lestemat-Colonel M W Wilkings by Acting Commissary General Bombay

The commissanat department in the three presidencies is organized on the same principle in regard to personnel, the establishments of commissioned, warrant, and non commissioned officers being larger in Bengal and Middas than in Bombay on recount of the greater number of executive charges in the former presidency, and in both through warrant and non-commissioned officers being employed on duties here performed by Native inspectors

The subordinate establishments of clerks, gomashtas called inspectors in Bombay and purveyors in Madras, are also on somewhat the same footing in the three presidencies, except that in Madras gomechtas, otherwise inspectors or purveyors, are not employed to superintend the issue of rations to British regiments and hatteries, 103 artillery, as is customary in Bengal and Bombay

In theory the procedure of obtaining the required supplies for the arm, is the same in the three presidences m_{π} , by contract, when possible. How fur it may differ in actual practice, I am unable to say

In Bombry the centract system obtains showed sections ely.

In the Bombry mesidency the commissionat department has to perform duties connected with supply, and truspoil for the evil department and for other departments, which duties in Bengel are not performed by the commissariat department

Colonel T.H. Sibley Deputy Commissary General Bengal

The mun differences between the Bengal commissionat and those of other presidencies are in the nomenclature of the Native subordinate agents, the pay of such in other presidencies being, as a rule, higher than those in Bengal - Judging from some papers received by me as president of a commission which was to have assembled last year to inquire into the sistem of audit, &c , in the three presidencies, i greater latitude or discretion is given to the officers of other presidencies than is accorded to commissarint officers in Bengal,

Colonel M J Brander Offic stung Deputy Commissary General, Upper Circle

So far as I am aware there are no main difference the new ment three pre idences being very similar. It impears that the authories, tem is more curred out in the Bombri, and I believe to the V presidency, arising, I think, from the circumstance that the sat where British troops are located in these latter are of much long . c istence and generally near large Native cities, while in Bengal the . many stations of recent formation whose sites have been these co on contary grounds, concequently, expitalists and q culator an r numerous in these latter, especially when saturated in and mar the !! The other two presidencies are more hunted in area, affording gar frealities for the operations of contractor

Colonel J Keer, Deputy Com-users General Lover Circle, missary General Bengal

I am not an tre of the differences Colonel G S Macheau, Deputy Commissary General Into m Com missierst charge of the Abster I am not aware of differences of detail of administration and is ment But as different languages are spolen at would be differ h

and Kuram Forces Colonel G J Dalrymphe Hav Transmer of Commissar at Ac counts Bengal

an officer of one presidency to manage the duties of another This office is not aware of the man differences between the De a commissment department and those of other presidences

Major M A Rowlandelm, Examiner of Comm sparset Accounts, Bombay

There is a very small diversity of practice between the Botta. Madris commission departments, the main features of both his " etally the same They differ from the Bengal comme and the the point of contract serves departmental agency. In Bon is Madi as the contract system is employed in every institute where! ... whereas in Bengal the proclee obtained of getting surplies and it through departmental agency, involving a large expense on the extra

Major W Luckhardt Dep to Lenstant Comm stary General

I have not served with the Madris commissional department at my reply is therefore necessials restricted to the Bomboy and the

commissionat departments

The main differences I have observed are—

(c) In the Bombas presidency supplies are obtained almost calindal contract, and consequently no necessity exists for the employment? purchasing agents through a hom supplies are more or less old and in the

Bengal presidency

(b) Another difference I have observed as that in the Bond) ! dency the warrant officers of the department are placed in direct of all string godorns, and under the supervision of executive versions version to freeze who are held per onally responsible for ill strong the freeze who are held per onally responsible for ill strong the secondary of the Bengal pre-sidency warrant offices at all held the supervisions of the secondary of the s from this responsibility, which rests with redown gomeshire in the ment which is made in the Bombas presidence in cres only where t services of a narrant officer are not as alable

(c) I may mention, thirdly, differences in the matter of secretaries. My opinion, however, on this sui pect is that the dissystems now obturing our be could assimilated

Should not a greater use be made of the contract system?

Colo ol J ? Willer Con m serry General Bengal

I was a great advanta for a attracta but Government from he lir down a land and fast rule ther in throwns the n pone! "ne as women a minusers ring there is through the report of entire the eggest, which relates type run from the report general, and then, who from unions on each of the interior proced bour than the setal lagency rit, you set a large out of many proceedings of partners from conducted. Control and there were the proceedings of the control and the control of the many layers and the second of the control and the pro-ceedings the procedure. is too much the principle on which General refer a and the deep ment, and honce the dr strefact meaning mean the of "

I entenant Colonel M W Wil loughby Acting Commissary Gen

The contract system cannot be extended in Bombay, as the commissariat department already invites tenders for contracts for all its supplies and souvices, including those required on the line of march for troops, and gaveres, ficializing means required on the first entering the most of metal to the system of dept intentity apply when the rates tendered are unit various or other encumatances received the shapelone. Practically the great bull, of the supplex and services required by the department or control and large partners by a general sear returned under control and large partners are years are returnedly unknown. In regard to the dispartmental supplies of trevel and mean, the wheel is a desirable and active and the large of the control and large partners are years are returned to whether the control and partners and extracted these of terms are the response to the partners of the pa obtained by contract, and cattle and sheep at some stations by contract, at others (failing receipt of tenders for the supply) by purchive by, or under the orders of, executive others

Colonel T H Sablev Deputy Commissiony General Bengal

In Bengal tenders are, I believe, invited for the supply of every article of supply except for brend and meat, which are supplied under direct commissariat agency, but even in these supplies we invite tenders for supply of wheet and no offer hides, bones, and surplus meat for sale by contract. The tenders as received are reviewed carefully— lst—By executive officer, who records his opinion as to fairness of

rates and abilities of tenderers

2nd -By deputy commissary general, who reviews the facts and opinions given

3rd — By examiner, commission to counts, who records his opinion as to rates

4th — The commission general then passes his orders except in cases of very large contracts, tea, rum, &c , which are submitted for final orders of Government

I think it a good plan to myste tenders for supply of all articles in this country instead of obtaining such by indents on England, and believe that after a few years the supplies will be effected under favorable terms

Colonel M J Brander Official ng Deputy Countrissary General Upper Orrele

A greater use of the contract system could not be made than is made, every pessible mens being ndopted to induce persons to under-take contracts by the frequent and periodical public martition of tenders for over particle required for troops and public catilet, and at is only in the absence of advantageous offers that departmental agency is resorted to I would here mention that, in my opinion a system of sup

ply entirely by contract in peace times would have the effect of rendering the commission department less elastic and less expable of employing its own agencies in time of war, when, as a rule, supplies can only be obtained departmentally

Colonel J Keer Deputy Com-missary General Lower Circle, Bongal

No the present system is, I consider the best that could be devised. By it the contract system is used as much as is advisable Contracts are given to tenderers when the tenders are judged to be for offers They are contrasted with supplies made by agency, with prices

ounce and reconstructions are an expense among by genery, with Intelle-current, and with the last contact. It is certainly most madraable to do any with genery purchases. As a rule they are, spenally as regards purchase of gram, flour, gloop, &c, the most constant of all the leafs for foverment interests, and this will be apparent when it is considered that to guard themselves from possible loss and ruin, tenderers must tender so as to keep then rates safely above the probable price current rates of the year centres must be next so the control of grain is generally so great, that not one tenderer in a landed or which they tender. The supply of grain is generally so great, that not one tenderer in a landed can arrange so as to be enterty independent of the brans, and any rise training place in the price current above their rates would make it to their interest to throw up then contacts and lose their

security deposit Then agency has to be resorted to

recently options. Links against mass to be restrict to The encountry of this can be seen of a gluco. The contractor's state as limited to the amount of has security deposit, the limit of which as Rs 10,000. But if pures full, he can go on graining for whole year, and the prof i may amount to five or ten tunes the above sum, and Government can say nothing: I think the time of grain contracts should be for these months, on the measure. The risk and security depos t would be much less. There would consequently be greater competition, and better offers might therefore be expected. It would then be possible for a contractor to purchase sufficient grain to render himself independent of the mondet.

If purchases were entirely confined to contracts, contractors would be likely to combine, as they would know that the executive officer was helpless, and must give the contract to the lowest budder

Agency is very useful as a check to this, and I am clearly of opinion that Government is, as a rule, a great local by giving grain contracts Because the price current rates of grun, owing to the large consumption, may safely be depended

upon, therefore agency is very safe for this important supply.

For barrel and hospital miscellames durines, blankels, &c., &c., the market rates of which do not really exist, their consumption is so irregular, and they differ so in quality, that contracts are, as a rule, best

Experience has proved that bread cannot safely be entrusted to the hands of contractors, who understand nothing of its preparation, and are in the hands of their bakers And since the introduction of the supply of meat by agency, the quality has been far better than

it was when supplied by contract, and the cost less I do not recommend contracts for bread but I thank meat contracts might be tried again on a small scale at some stations to see how they work

Colonel G Weebeam Dops by Con a serry General 1 to an Con m searcht charge of the Ally ber and Luram Lorces

The contract system is made the greatest use of that is possible But when contractors do not come forward, the agency system has to be resorted to

Colonel G J Delrymple Hav counts Bengal

It is the opinion of Government that supply by contract of a demore fully encouraged and developed, and that the employment f a purcha er of stores which they have to receive and account free when practicable, positively prohibited In paragraphs 150 and 1

of the funneral review of the commissarrat day artm at for I see is was shown that the los is Goramment by the nection of tenders for the supplied from the first being the cattle supplies, stores for Fort Blur, and wheat for the buler at Calcutt, and the sub that agency anamements, amounted to Re. 1,62 006 10.2 A great portion of this los war dis attributable to the exception if excumsioners of the year, but the loss shown does not apparently to the extent of the loss which Government sustains by the maintenance of agency arrangem of contracts which exist do not represent a sound contract system, then existence is expected to agent's interests, unless he is admitted to a participation in the profile, and any such array a must enhance the rate. The existence of a strong agency must also consider initiative within it. class of tenderers, men of substance, from the fact that departmental agents being both provides cases of transferly, men of susceptive, from the ret first departmental speats some total process; receiver, and brought entrope the network of the control of the receiver of the return the new I head, have presented by exquired an owner of the which dates controlers from responding to the mixture in returner. Here do not up to the sufficient receives why whech and it the supplex, proclaming fooder, should not be a reaching of the sufficient receiver and other victualing supplies, but the introduction of a change in the mode of eq. [1, 1] as a rece and other victualing supplies, but the introduction of a change in the mode of eq. [1, 1] of the control of the probability to me the probability to me the probability to me the probability of the office of the order of the probability of the order of the probability of the order of the probability of the order of the probability of the order of the probability of the order of the probability of the order of the probability of the order of the probability of the order of the probability of the order of the probability of the order of th profits There are encumetances under which agency must be resorted to, but its extensive only must as a neural mode of old times document applies as opposed to the interests of Go with A copy of the Commercy General's letter Ao 11 st, died off Seylember 1856, older of the continues of must receive the most supple, and of the office may be dead to the controlled of multipar seconates on this supplest, and of the office may be therefore the controlled of multipar seconates on this supplest, and of the office may be dead to the office must be a supplementation of the office multipart of the commerciant general's latter are united and referred to the office multipart of the commerciant general's latter are united and referred to the office multipart of the commerciant general supplementation of the office multipart of the office multipa puragraphs 75 and 81 of the financial review for 1871-70, transcripts of those paragraphs and Appendix N referred to in purgraph 78 are also sent

No 1157, dated Simbi, the 6th September 1870.

From-Colovel J I Willes, Commissing General, To-The Officiating Secretary to the Government of India, Military Dept.

I have the honor to acknowledge recent of your letter No. 113, Commis and dated 19th J? 1876, forwarding printed copies of the annual report by the Lyammer of Commescarat tecomit the year 18/1 70, and with reference to pury raphs 78 and \$1, inviting my attention to the rest in supplies by local agency in lieu of contracts, with the remarks that supply by contract shall

an acquaix of nour agreety in ten or contrasts, with one remarks that supprise by contract of all more titals, encouraged and descripted and the emphasism of a goods as practicated of doors of be their line to receive and recount for be positively probabled shein practicable.

In right, I beg for at teithat I am not we use that there has been my increase in the style by local agency. The Learning's report shows the sum her of contracts compared with a gent of cuttle supplies, and I have no reason to approve that, if compared with similar adustics for pass and my account 1821 for all complexes of a more would be a reason to 1821 for all complexes of a more would be a reason.

years, any meticse in 1871 75 of supplies by against would be a parent.

3. Lenders for cattle supplies are marted by the Department, and when none are received \$ 117.

l y ngeney ay marandalde

If fender are received, and the Prammer in reviewing them before despatch to my office that that the rates are high compared with the cost of previous years and ruling market rates, I, is interests of Government reject the tenders, believing that the supply by agency can be effected t cherply and the test of the result should be not a companion with the rejected tendere laste lat's k the neural piece ulting market rates as shown in pieces union. If, however, it is thought the blue tender even if the rate is shown by the Lymmure to be light compared only if cost of the supply in previous veirs and exting morter rates, it will certainly be developing the trut system more fully, and I dall be glad to receive the orders of Government to adopt this cort but is long a discretion : left to me, I shall not as I have lather to done, I cherate, that I last

plenousbug 1 As a gards the opinion of Government that the employment of agents as purchaser (f et which they have to receive and recount for man, when predicable to positively fribbil I, I a legitag intent if such is to be the rule, on there is so of men will have to be intially ed in Bit action, for in times, with making gonerality having to supply eggs and find with hims for them from one of s, and other things from mother, and so on. A station gonerality ag in law to be to me bad of the one of the complete leaves the limit of the limit of the one of the complete leaves the limit of th

(908) [Appendix IV

6 I would unge therefore that the system which has worked so well for more than half a century he allowed to stand. In theory the system of purchasers not being receivers and issuers of stores is admitted to be correct, but that in practice it can result in either economy or efficiency, there is not an officer, I am satisfied of my standing, will admit

No 750, dated Culcutta, 13th November 1876

Prom-The Examiner of Commissariat Accounts, To-The Controller of Military Accounts

I have the honor to return the enclosure of your No 6927 of the 9th ultimo requesting to be mformed whether the supply by agency, as compared with that by contract has increased as its increasing and remarks on Commissary General's letter No 1157 of the 6th of September 1576

2 With regard to the extent of agency as compared with contract arrangements. I submit the following statement showing the number of contracts and agencies for the chief articles of supply under-

(1) Wheat for mills
(2) Victualling Europeans
(3) Diet ng siel

(4) Teeding cattle in 1874 75, and during the quarter ending June 1876.

With regard to wheat for mills and cattle supplies, the number of instances in which bakery or mill agents and critic gomashtas were the suppliers, receivers, distributors, and recounting agents of the stores in the quarter ending June 1876 is also stated

	1874	175	QUARTER BYDI	rgJvar18*6	Instances in guinter ending June 1876 in which agents nerve suppliers and receivers also	
Articles	St ppl ed by contract	Supplied by agency	Supplied by contract.	Suppl ed by agency		
Wheat for mills Vietualling Stores	{ 2 } March	1o 1875	} 5	12	9	
Coffee Potators R ca Salt	27 No record 36 24	14 18 21	34 46 60 29	6 5 20		
Diet ng Sick	24	19	95	7,6		
Fords Chickens	26 26	29	33	17 20		
Teeding Cattle			ļ			
Atta Barlsy Bardsor Brooden Fodder dry Green Gram for horses Grim for bullocks	02 મું લઇ ત્યાં ના ત્યા	29 22 32 33 39 23 23 28	1 1 2 4	21 23 24 19 17 27 27	15 20 5/4 19 16	

⁴ It is only within it e last two or three years that the attention of this office has been attracted to the subject, and that stat sties have been collated from which comparison of details is practicable

With reference to parigraph 8 of the Commissary General's letter, reference is requested to

the orders issued for the encouragement of contracts for commissariat supplies

6 In Commissary General's carcular No 130 of the 8th of April 1861, executive officers me om Comments of Venezia School in Value of the Contract No. 13 of 1871 Louis, execute omers are omnessed to other es far up practicable to the contract system, and in Ministry Department. No. 110 of the 6th of May 1875 published in Commansary-General screening No. 19 of 1876. Government therefore that as a rute the low est tender school the accountly for the security for its proper execution is sufficient.

7 The procept of contracts for wheat wond cuttle supplies generally, compared with those for votal linguage did state goiness appropriation the statements in paragraph 3. With regard to these supplies,

along and metric genors's supportent rous not settlement in paragraph 3. With expect to turke supports, agency does not populate for an execution of presented to be these every effort to obturn a favorable contract fails. It is not the ordinary part et a to defer that contract ranagements until more favorable offers can be obtained, but after the first accounted the major that the supply to an agent for the currency year. So although it is manufest that for these supplies there is difficulty, in obtaining contracts upon

any terms at does not appear that enquiry has been made to ascertain the cause or to discover wly cul treators and dealers are not as willing to supply wheat and cattle stores as to meet the requirements for

victuall ng E iropeans and dicting sick

9 The miringements for some supplies appear to require special ritention from executive officers with reference to the requirements at particular sevens. fooder for elephants for instance, the expedition. tune upon which amounts to a large sum Commissery General's et calat No 141 of the 17th Noweather 1871 stytes with regard to thus supply, that there is no objection to tenders for elephant folder being invited for short periods and to the description required in each season being stated, with the object of informing the tenderers what they will have to give thus enabling them to fix more precise rates

10 This order does not appear to be always observed the invitations being generally for an annual contract and the supply is ordinarily entrasted to the cutile generality for the following year. if there is no response to the minitation for tenders, or the rates offered me considered unfavorable

11 At some stations there appear to have been no contracts for fodder for several years the supply being in the lands of citile gomastabs. It is desirable that enquiry should be made at either. m such cases the cattle gomashta being both provider and receiver, and having an interest in keeping the supply in his own hands, has not acquired an influence which deters contractors from responding to the invitations for tenders

(904)

There do not appear to be any sufficient reasons why wheat and cattle supplies should not he as readily obtainable as rice and other victualling capplies, and the strong opposition of depart mental agents who must lose by the arrangement must be expected. That contracts for them are not

generally concluded will be seen from the statement submitted with this letter

13 That agency rates are not generally as favorable as the rates of rejected or annulled tenders is not only the experience of this office, but appears to be clear from the statement forwarded to the Commissing-General with this office No 111 of the 30th of June 1875 Comparative statements are submitted with this office quarterly reports on the agency arrangements of the department regarding which the Commissary General remarked in his No 631 of the 29th of January 1875 "I have kept them back for further examination and enquiry, and I shall, if there are no good reasons for the higher agency rates, at once take the orders of Government on the subject of accepting generally the lowest tenders without reference to their being considerably higher than those of preceding James If the statements submitted 1 ally represent the rates generally is rating between rejected tenden and agency rates, I confees my faith in the advisability of ever resorting to the latter when a contact can be obtained as greatly shaken?"

14 Subsequently, the Commissary General requested a comparative statement of rejected tends and agency rates for a whole year to enable hum to form a correct opinion on the agency supple.

This statement, was furnished with the share agency later, and it shows the following results—

ns erritement A	ras raimsneu wita tue at	ione directen	ietter,	THU IC SHO	wed me rou	owing resul	13 ~
		VICTUAL	LING				
Instanc ten	agency supply— es in which the agency ider rites es in which they were hi		lower	than rej	ected or ca	ncelled 4 10	[
							:
		TO A TOTAL PORT	270			20	
0 7/		DIETI	MG			_	
3 Hems— Agency Higher	rates lower than tender	rites			•	. 3	
						-	
	Г	TEDING	CATTI	TC.			
32 Items— Agency Higher	rites lower	•				. 25 39	

15 With reference to purgraph 4 of the Commissury General's letter, I brue the board to state that the sale which products a supplier being also the receive has been fully received in Communical departmental codes. In purgraph 126 of the charge one contracts analysished with Communicary General a review. No 90 of the life of June 1882, it is stated that we commend the communication of the life of June 1882, it is stated that we commend the communication of the life of June 1882, it is stated that we commend the communication of the life of the life of June 1882, it is stated that we commend the life of the life of June 1882, it is stated that we commend the life of the a salary from Government is permitted in any way to be engaged in a contract or to be both supplet

In encular No 6 of the 16th of Pebrura 1966, the Commissing General remarked that the practice by which the purchasing again to also the economical of issues opens a close to friend, and to strongly is the purches depressed, that the ercent cheest that given merchased by years for artillers house for a buch the purchasing agent would not be the accountantly should be delivered who godown and the assue made from the godown. The principle is also memberted in Military D part ment No 295 of the 7th of Junuary 1873, in which Government direct that purveyors shall draw then supplies from contractors or deputmental agents, and that the commission of officer le held re sponsible that there is no collegement on the permission for participors to make minor purchase call

10 The supply by igency of stores for victualing Europeans and dieting however unde rube

as comprised with cont act irrangements does not appear to be open to the same objections as the supply to receive of wheet and grams, &c, for cettle. The expulse for votal tiling and dating at ability of the three passes for votal tiling and dating at deliver of to the regiment il subporties, whose acknowledgments are required in support of the special charge. The million and cuttles up plus are received and recommend for the supply of stone by in the support of the special characters. It is not understood what a latituded when would be myolved in the supply of stone by in-

agent other than the receiving gomestita, nor what advances would be required which are not non art 18 The Commissary-General remarks that all engaged in the agency supply would make their molife, i.u., as their need in no instance be men, than one supplying seath, i.e. not approved to whom the Commusery-General refers unless he includes the victualiting and cattle gomest is when duly it is to receive the stores, for which dity and for their distribution they receive silane from Government

As not supply with its varying rates the cheel of which is regulated by local prince current, molves allitional work in executive offices and this office, but it does not appear that the

would be men a cllly the nomination of a supplier listinet from the receiver. The remedy for the work in orthogoness will be found in the extension of contract arrangement. and although the introduction of the change would probable involve vigorous effort on the part of executive officer in the unitation of a section which deprives a grave's of large profile the draining mobile eventually afford much relief from the clerical labor in eye utile offices to which the Courage with the courage of the c General refers

20 That the supply is not effected so advantageously by coming anal geometries of the feet the did appears to be admitted in a traggery of the Communication of the traggery of the communication of t in press to te standard in protection of the department of Giner (s.) then a major to establish the great back for the profit on ing from making purchases in other made, the charge on a ring most the gradies man of That agends in durable common in dutation the racket framework of point, it is their conformationers and includes such by and the declaration of the standard protection of the standar relance to be placed on their efficient services will ordinarily be proportionate to their prefit, user be

conceded, but such concession does not uppear to me to afford any fair ground for freintating the acquisition of illicit gain as for the employment of agency where the supply is obtainable on more advantageous terms by contract

21 I do not know what establ sinuari paid by the gomewhat are referred to an prayramph 5 of the commusary General's letter. The Commusary General's remail, that not a man would care to remain in employ if these agency purchases were withinking affects one explanation of the children's of obtaining contacts for the supplies in a bloth they have so deep an infacest, even if it should appear that their series can be secured by more legitainst endocement. That custing arrangements for supplies are opposed to flow enument and deput insular disconnection. That custing arrangements for supplies are opposed to flow them that offers is, I think, indispatable, and the subject was therefore brought to patice by this office.

Extract paragraphs 78 and S4 from Annual Report for the year 1874 75 CATTLE SUPPLIES

PARA 78 —Accompanying statement N shows the items of cattle stores which were supplied by contract and agency during the year

It will be seen that the supplies were mide in the great majority of cases through commis search agents, who are frequently incertors is well as purchasers of the stores, and whose purchase rates are checked by local pinces current.

The following defind shows the number of contract and agency arringements for this service in

the year —	
Gram for horses { Number of contracts 4 Number of agencies 23 Todder, dry { Contracts Agencies	., 32
Barley for horses Contracts 3 Podder, green Contracts Agencies	. 4 . 30
Oats for horses { Contracts Agencies 3 Grass and straw . { Contracts Agencies	4 16
Gram for bullocks Contracts Agencies Contracts Hay Contracts Agencies Agencies Contracts Agencies Contracts 1 12	
Bhoosa Contracts 4 Agencies 26 Atta for elephants . Contracts Agencies	29
Dhan or paddy Contracts Agencies 10 Rice for ditto Contracts Agencies	10

P.M. 84 — With each quanterly report a statement was submitted by this office showing the stations at which the rates of agency supplies exceeded those of tenders which had been rejected, or contracts which had been annualled

STATEMENT N
Statement showing what cattle supplies were provided by contract and what by ager by in 1874-75

Statutos	Gram for hors g	Barley	Outs	Grun for bullocks	Bhorea	Paddy	Folder dry	Fod c green.	Gm. van l straw	Hay	ttia (se of phants	R ee for c ephants.
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OFFICE OI EXMR OF COUMT ACCTS, Calcura
The 15th December 1875

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Leamings of Commissions it Accounts G J DALRYMPLF HAY, Colonel,

> The with S to other 1579 CALCUTTA

Colonel R Q Va awaran Peput; Ass stant Commissar; General Ass stant Madras

In the interests of Government I am aver a to the contract system. for the supply of rations In England, where people in trade have large establishments, daily turning out for the general public a large supply of the articles required, the system may maker, but even there Sir Churles Tievelyan, when Permanent Sceretury to the Treasury, gave

evidence before the Prilimentary Committee in on 1850 that," where the contractor, the meat salestransmit states the production of the production contracts in favor of work by their own servants

In this country to enter into a contract (except for rum, ten, mult liquor &c , and other large, but not purely, local supplies) is to add one more agent who is not required to the commissants. The said agent has to lodge a security, the interest on which he adds to the other expenses he is put to, and charges (or supplies) accordingly having aheady taken into consideration the chance of lesing the security, which too often is borrowed

by Manda to detect a decorated with the second second to the army in the Pennsulin will under the Bir Randolph Routh who was commissivy general to the army in the Pennsulin will under the Dake of Wellington, gives it as his opinion that the construct system is not suited for non-commercial countries, as it leads to combination instead of competition. This is rectainly the cess in this country In Bangalore in oir 1864, the few rich people transacting business with the commissariat department combined to throw up the bread contract and to re tende for a fresh supply at double the price. The Government established the bil cry, and brend has been kept at its normal paice ever since. Here the brend and meat contracts were curried on well and at apparently a fair price, but departmental supply having been established, the saving has been great, though of course at an increase of work for myself and the department

Loutenant-Cokonel J V Hunt, sparty As atout Commis ary Deputy As at General Bungul

Contracts are advertised for all articles except bread and meat. I do not think that the supply of either of these articles can be satisfac-torily effected by controct, as a rule, but it would be advantageous, in point of economy to mvite tenders occasionally at different stations in rotation, as a check to the tendency which exists of gradually merersing

The system of framing contracts I thinl, needs looking to It is cumbersome, and affords opportunity to clerks to throw I indrance in the way of tendeners kernest-money has to be paid into the civil treasury, and the receipt attached to the tender. The system is so complicated, that a long time elapses before the camest money of unsuccessful tenderers can be returned

A system of 1 utting contracts up to public ruction, and of returning all ea nest-money on the spot, excepting that of the approved bidder, would, I think, improve matters

Major H A Rowlandson Exam-er of Commissurat Accounts Bombay

The contract system is in force in this presidency for the supply of all uticles purchased in the country, and departmental agency is only resolved to an agent the commence when four able to denote and receiv ed for the contracts advertised. There is little difficulty experienced in obtaining tenders for contracts for supply of almost every article required, and it is found that the rates at which purchases by contract are made contrast favorably with both the current market rates and the departmental agency

jor W Loellardt Commissary-General

A contract system has its advantages and disadvantages. In the Bombay presidency the contract system is carried out to the fullest extent, and from my experience in many stations in that presidency the competition for these contracts is so Leen, that it is one of the constant difficulties a commission of officer has to contend with to I cop dealers who have tall en contracts at unremunerative rates up to the \hat{m} ark in their supplies, for I may mention that in the interest of the contract system it is considered unadvisable to put an end to a contract without absolute

necessity demanding such a step

I am informed that this engerness to undertake commissionat contracts does not exist to the same extent in the Bengal presidency, but with no liek in competition. I consider the contract system to be the most adv ntageous one to Government from an economical point of view The disadvantage which the contract system curies with it consists in the department being taught to depend too much on contractors, and that it loses in consequence that self support which is of such importance in times of war, when contracts cannot be obtained and the department has to shift for itself

Colonel J P Hobday Precuters Commissional Officer Landalian

No , I think not It is used in almost all cases where large expenditure is incurred. But it is very necessary to have agents capable of taking up at short notice any supply in event of the failure of a contract which very often leaves an executive officer in a difficult position

Are there not some stations at which commissariat commissioned officers are now employed which are not sufficiently important to necessitate the employment of a commissioned officer?

Colonel J I Willes, Commission I think not There are several stations held by warrant or noncommissioned officers where there should be a commissioned

General, Bengal,

(908)

Colonel R A Vierre Acting

Heatmost Colonel M W fills white to an Communicative Billo white to General, Bowley

A conductor is in charge of the department at Moulmen, and a deputy commission at Virgapatam. All the other stations when All the other stations who commissioned officers are employed are places of considerable importance

There are British troops of more than one arm of the service at most of the stations where a commissioned commissionat officer is emplored in this presidency, and it is desirable in the interests of Government and of the soldier that the commissaint allangements should be super (v) by a communisationed officer at even the smilkst of these stations. At the present moment, and for some time past, owing to paucity of officer and through the exigencies of the service, important posts life the depo at Diolair (a great centre of activity during the thooping season) and the executive charge at Ahmeding it have devolved upon warrant officers. and however efficient these men may be, I consider they are placed in a false position, as the responsibilities imposed upon them are out of all proportion to their status and salars, and that in justice to themselve, and to the State, they should be replaced as soon as possible in their proper sphere of duty

Colonel T H S'blev Deputy Commission General Bengal

The smallest excentive charge is that of Dargering , and the presure of an officer at this station was considered necessary owing to the difficulties of obtaining articles of capply, and because it was on the north eastern frontier

Colonel V. J. Brander Offe at ng Dop ty Commissary General Upper Circle. No, there we extraply some stations of minor importance as cor pared with others, and it might appear that at these commissional commissional officers are not required. But my own expensive h tuight me that Government is decidedly a pecuniary gainer, when the most reliable supervision is evereised over expenditure, the diff rence of a commissioned officer's pay as compared with that of a subordinate lang trilling in consideration of the expenditure involved and the grain

Colonel J Rece Deputy Com no every General Love Carch Bengal

efficiency secured by the presence of an officer I think the department is much too weak in its commissioned of cers as well as in its warrant and non commissioned officers and strong ly recommended that its present number of all three grades be men. The worl would go on at such stations as Ben ires, Dinapore, and Diraceling under warmt offi-

cere, but tetter munegement and therefore greate economy might be looked for under commerced officers. Nor would the exting cheeted be so great, as it would cause an uncrease in the light gift of warrent officers, whose pay varies from St. 12 to Bs. 500. A sub-assistant commission and and order of a cause of the state of the sta of a commissioned officer at is not too much to expect that he would save Government more mostly mouthly than the small excess of his pay over that of a warrant officer. These small charges are good schools for young commiss not officers As warrent off cere are not allowed to draw eleques, it would be most inconvenient

stance, D receiving and Dissipere are at too great a distance from Calcutt's to be managed from the place with efficience and C deutits has already enough to do

As it is, the number of officers of all grades is not more than what suffices to carr, on the next

in time of place In my circle, Calculta is the only place which has an officer of the department in charge All the other stations are in the hinds of acting men, who most depend much on their bend is table (generally A tives) and their warrant or non communistanced officers-not a deviable state of affairs

Colonel C - Machen Dapaty Corn a sary Ce and late as to an unat large of the higher and home lerres

where so much money is being expended. It looks like economy, but obviously it is not I know of mone On the contrary, I have five station on my creek—Jhenes, Nongong I vrol ad, St upore, and Deli — garteson de l'unopen mi nitra and aviil ra finet lo montono i utteglat r, Vorel 113, Shahah my ore, and Roori ee, and the depote of Landour ad Nast 181, which should have commissioned officers in charge of them, and which under Inglish commessional dejutment, would have two or the officers of the dejutment attached to each of them

Colorel C J Dalermole Her Pron tref Commisses Accounts Bogsl

The smalle i executives are Benarce, Danapore, and Jullandar, in as outposts we attached to each, it do s not appear to be advised to three the charge of the e excentives in the hands of other than

Major W Inckhardt Deputy Ameretant. Umball.

Capta a J F Hebday Factures Commissional Officer Kandalar

My opinion is that the employment of a commissioned officer even in a comparatively small station is found in the end an economical measure Moreover, by placing junior officers in change of these stations, they become fitted for the more important stations and posts in the department

Many such stations as are referred to have been made over to warrant officers during the last few years ar , Sitapore Saugor, Tyzabad, Banackpote Jhansa Shillong &c Perhaps one or two others might be added but it must be remembered that when the office at any one stat on a reduced stonly has the effect of throwing more work on the next nearest executive. In this way of late years the tendency has been to moresse the work at large central stations and it las become so heavy at some, such as Peshawar, Rawal Pindi, Mean Meei, Lucknow, Jubbulpore, &c , that it is beyond the power of one officer to do it satisfactorily and a failure in health is generally the result of attempting it alone By doing away with officers and their offices at out or small stations, it only necessifates an increase of work, and consequently two officers at the large stations and these two officers cannot be guen owing to the small numbers of the department. The work is too much for, and soon wears out, one man

4 (a) What is the cost of the personnel of the commissariat department at each station?

(b) Give a detail of all officers and persons employed at circli stration under the several heads, "Supply" "Transport," and "Accounts," and the daily duty of each rank of officer suboidmate, and employé (European and Native) in the department, and of both permanent and non permanent establishments?

(c) What is the average number of Europeans fed at each station?

Colonel J I W lies Commes sary General Bengal

(a) The cost of the European personnel (not including office establishment) is-

I commissary general (consolulated) 3 depatry commissaries general, staff salary at Rs 1000 eveh 4 assistant commissaries general 1st class, staff salary at Rs 800 each 5 depatry assistant commissaries general, 1st class, at Rs 500 each 12 sub assistant commissaries general, 1st class, at Rs 500 each 12 sub assistant commissaries, 1st class, at Rs 300 each 13 y 200 y 20	Per month Rn 2,300 3 000 3 000 2 400 3 000 2 400 3 000 1,800 1,800 5 00 5 00 3 75 1 200 4,875 6,133
Total	38 683

(i) Each depaty commission general is in charge of a circle of superintendence. An ovecutive commission of or is in charge of each executive range. When available, one is allowed as sension to the one important executives, such as Pediwara, Earn's Livid India Mecan Vicer. Lucknow, vise the more important outposts &c

The manner of the employment of warrant and non commissioned officers is shown in the annexed statement A (escular No 20 of 1868)

Detailed rules for the guidance of non commissioned officers on command are contained in annex-

1877 75

ment B (circular No 212 of 1877) The numbers and salaries of all other establishments employed at each station are shown in annexments C D, E and F - Outile attendants are not included, as their numbers depend on the numbers of cuttle present to which they are allotted on fixed scale

A movment to contains rules for the guidance of gomeshtas, and annexment H those for the guidance of purveyors, the only classes for which tules are necessary, the others are not usually able to read or write (c) Statement marked I annexed, shows the average number fed at each station during

A

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Circular No. 212, dated Fort Willram, the 28th November 1877.

In continuation of Cucular No 157 of 1877, the following is added as No 9 to the List of form leiters and supplies can be obtained from the Supermiendent of Government Printing -Letter of instructions to sergeants proceeding in victorilling charge of corps on the much

> (Sd) L W CHRISTOPHI'R, Lientenant, for Commissain General

λo

Letter of instructions of Sergeant victualling charge of

, proceeding in on the march from

with the The victualling generality

has been furnished with punited instructions and estimate regarding his duals on the much, and which he has been instructed to produce for your perusal when demanded 2 You will observe from the letter of instructions what articles of rations and diets are supplied

by departmental agency and what by contract. In the case of failure on the part of contractors, you of the gemeshta sunstructions, and report the circumstances of are to be guided by paragraph the case briefly to the executive commissional officer at and to the undersigned

3 The bakery is under charge of the vietualling gomeshia, and you will be careful to see to the preparation of the bread daily, and that it is issued in a cleanly state, and that the establishment attending the retion-stand appear in clean

clothing

You should pay particular attention to the yeast, to ensure its regular and timely exchange, so as to preclude the possibility of the bread suffering in quality. The more kneading the dough gets the better

The more ansuming use usugal gets we execute

5 In the event of reycton of bread on the marsh, you will be garded by pringraph of the
gomashta's instructions regarding a fiesh supply, or a substitute of scope and flour in a fixed state

6 Condemned blood should be issued to elsphants (should there be any with

m hea of atta or rice or to bullocks in hea of grain. Should there be neither elephants nor bullocks present it is to be disposed of to the best adventage, and the proceeds sile handed over to the

gomashta 7 The cost of bread sold to seldiers or then fumilies, which is to be recovered by the gomeshta

per lb , and for bread sold to undividuals at time of sale, is 8 The meat arrangement of the as under change of

who has also been furnished with instructions regarding his duties on the much, and which he has been instructed to produce for your perusal when necessary

head of cattle and sheen calculated to last to made over to the egent, which you re to inspect before you maich for the first encomping ground He will obtain further supplies from executive officers on route, if necessary. The scale of fouder for these cattle is for-

Cows 1

Sheep

10 The crittle should be driven slowly from stage to stage and you should be puttoulur in seeing them natered and fed daily, and also to see that the nates given them is good and sufficient

seems until weekers and the tanky, that size to see into the waste given teach a good an assument.

It for will be the recounts of the cuttie and sheep singulations, the rutums issued to them, and the outsian of must, in the forms inevertile sect, you is, Accounts have 30 and 30 in the forms inevertile sect, you is, Accounts have 30 and 30 in the forms inevertile sect, you is, Accounts have 30 and 30 in the forms inevertile sect, you is, Accounts have 30 and 30 in the forms inevertile sect, you must be seen to provide any other sections.

by you to the executive commissariat officer at The price of meat assued to

soldiers and then fumilies, which the gomashta should receive at time of issue, is for-Beef per lb

Mutton per 15 and for sales to individuals-Beef per 16

Mutton per lb 13 As the ment will probably keep good for a dry, any bitsection using in hand after the dry's usue should be issued the next day. Small definences of best should be made good by killing one or two skeep if commonling officers do not object.

14 In the event of rejection of mert (which can secreely ocean if the citile are examined by

you daily, and fed in your presence), the geometries is to pry compensation. It is not of that being the last rate, plus

per cent The rejected meat should be sold by auction in the best way possible, and the amount reduced hunded over to the meat agent. Meet ageeted and pronounced unwholsome should be destroyed in the presence of a member of the committee

The following arrangements are made for disposal on the march of hides, skins, &c -(Hides

Sheep {Skins Offals Surplus mutten Offils Cows | leet | Benes | Surplus meat

^{*} Commessory General's Curtain Ao 40 and General Order No 161 of 1873

Article aspect of by contract, if not "il on over daily by the contractor, should be put up to am to rate each encompany ground. If the lade do not fetch proper prices they should be dried, and taken to the next executive a row, and made over to the commission officer there finding all

If You will be particularly exclud to e that the public cutte C_lear releable means with the are properly fed and watered and

that their duly may as follows, are given them in your presence -

Flord ints Bulletts

The actual decorption and quantity of fodder given should be entered in the monthly refurne

17 Instruction for the care and minagement, &c , of elephants are appealed for your good meet 15 Lie camels on public command with the should be inspected by

Is fast need a monder learning the thousand entranced as to the duly on their strict in the case of a monder learning the case of the case curried out and also that the

proper number of strains re- one to every three camels, are always are out 10 Currage f a broadstaff and sugar is to be discharged immediately the load is consumed

20 Government carriage is on no account to be used by contractors for carriage of their supplies

on the murch 21 A detail) of carriage and establishments with the is all iched, and you will see

that ill of them are present duly at each encamping ground. Any advances or changes made to or the a to the an office and which containing process are not the containing to them under tour significant in the et blackmants are to be duly noted on rid in under prior ming to them under tour significant to the containing to the containing to the containing to the containing the containin

2) I will resist the gomestia in obtaining duly and other indents required by regulations to

support his du tee or other recounts of the marel , and you will be particular in seing that the actual quantity of articles purchased duly, the prices mad, and full amount paid, an entered in all nerilnamelis, or price current obtained exercite 21 After seeing every morning that the barriel and hospital requirements of the camp have been

fulls supplied, you will proceed, with your a table liment, in advance to the next cump, and arrange for all requisite supplie, so that the G cral troops on reaching the next camp next morning in it find everything in reading of them

2. You are to have a court of enquiry as emilled on all loss or damage of Cove ament property excee his an value Rs 20 and forward the proceedings, with your own ob reations, to the executive commissarint officer at destination

26 You should on all occasions when unauthorized supplies are ad ed for, or when unauthorized

expenditure 4 ill have to be mourred, obtain the orders of the officers concerned in writing 27 On your arrival it executive state us on route you will immediately report your elf to the

ex entire there, in view to the cattle and stone with the regiment being inspected, and airmorments mad for fre h supplies (if nee are) for the onward much 25. The wood of signred bank name to due to be utilized as freewood for rations or for billery,

and the tren heeps are to be delivered to the commit error godowns error to
29. It is heped you will use your hist endersours to give soft feeling to the commitmeling and med all o heers in charge and that you will pay due attention to the wants of the latter, and also see

the furveyor attends carefully the date

Ill rep rise nucled with the m rehelf the (need to report thet help un, to be sent by you to the executive officer at

S to nery and no tage stamps, a foll we are herewith sent you for use on the man h, any Inlan of while maning on hind aft rithe march is to be made over to the executive commissanat officer at de tarriton -

I trettar Con teasier O Her, 1 ______187 ,

Asserted Commission. General.

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No. 2395, dated Fort William, 23rd March 1878.

From Motor J. Ressauer States, See Commissay: General,

To-The Deputies Commissary-General, Lower, Central, and Upper Circles.

I have the honor to formand ten expise of a complication of rules relating to the Native agents of the commissariat department, and request you will, in communication with exceeding all for suggestions of such additions or amendments to the rules as are home out by orders or other matter that may odd to their completions.

2. The additions and amendments may be made on the copy of the rules sent to each executive commissional officer, for which purpose they have been printed on half mangin; and on return by each executive commissional officer of the copy sent to him, you will please formed to this officer copy of the rules amended or mobile to by yourself with reference to the suggestions you may receive.

Rules relating to the Notive Agents of the Commiscariat Department.

Classes.

1. There are to be three classes of gonastales, consisting of left, and field purchasing agent.

2nd field purchasing agent.

 Security to be for 1st class and the special class of depot godown generatals Rs. 1,500, 2nd stars Rs. 1,200, and 3nd class Rs. 1500, to be in each or Government

Security.

Salaries to be for depth general graphs.

Salaries to be for depth general generals Rs. 15, for let class govantable Rs. 10, 2nd class

Salaries

Rs. 40, and 3nd class Rs. 30 per mouth, with bottle at 10 per cented.

relate which journey is by tall.

1. Cattly ground the first stations and all stations and goodness, also we trailing.

Confinite—Fraction good take of constant end depth, regionants as vings of country to brite of ortillery, or of parties of largest testing to the of artillery, or of parties of largest testing the mental quarter and all quartered country, and end on the other country, and end on the other largest testing that the other strength, and of the bit days, and occanically the of Lange and from all endowers the cately, and of the bit days.

The Part days to country of earlier generations of his best of the bit days.

3. The time can be explored a culti-geometric or time for a case, and many internet common formation in the common formation in the common formation in the common formation in the common formation with 25 cm more dependent of mainly or infinitely of 100 to 200 ment of the common formation with 25 cm more deplaced, or not less than 100 temperal animals of any other dependent.

6 The 3rd class to consist of all other command, cittle, &c., Thurd class gomestahs, and victualling gemestahs of troops of less strength than

100 Europeans

on Lumpenss
7 Cattle or stainen gemastuls are not required to understand English, but they should be seCattle and staine generalishs need beeled more for their unflavore emorgest Natures. Those men are
set understand English
generally d with from the malagum and Nature brukes class, and in a not understand English time of war are expected to be able to aid materially in the economical collection of supplies

So Godown and retunling gomestribs should understand, read, and write Logish, and he able down and returning Gomes-most troop English

particular class, but must be respectable men, and men respected by Godown and victualling Generaltabs must know English

then own countrymen Catife command generated need accounts in the vertureality, if not in Angeleis, but must be able to keep catife ment have English accounts to the office in English at their case.

> 10 There are to be two classes of purveyors, consisting of 1st Purveyors and 2nd class

11 Security deposit for 1st class to be Rs 1,000, and 2nd class Security Rs 750

Solutions to be let class Re 50 and 2nd class Re 40, with house rent of Re 10 for let class and Rs 7 for 2nd class, also batta at 50 per cent of salary when proceeding on command with troops except for the journey by rail Rahmes

13 For divisions of artillery regiments of civility ad infentry and convilsorat depôts, wings of regiments and a force of artillery consisting of two or more bat-Classification teries, 1st class paiveyors are allowed. For sepriate butteries of artillery, and for all detachments of Europeun cavalry and infantry with which hospitals are estab-

attuery, due no as consideres, and class purveyors label under medical officers, and class purveyors are to receive puy of either 1st or

2nd class, as may be sanctioned

15 Purveyors must be able to read and write, and render accounts Knowledge of English necessary ın kaşlıslı

Aske it will show upon statest a pure one by the departy commissing general, all others and of general and pure one rosts and contract commissionate filters. Arount months have been and executive commissariat officers Appearaments by deputy commissary-general will be reported to commissary general for confirmation and reported to deputy commission of most will be reported to deputy commissing general for commission, the will report the same to the commissing general. All agents nearly reponded will be on production for any months and will be confirmed on not according to the report received of them 17. As a rule, agents should consider themselves halo to be a transferred and them. appointments by executive commissariat officers will be reported to deputy commissary general for

As a rule, agents should consider themselves hable to be transferred to another station once in every three years. But it lests with the commissing general to Tounston modify this rule at all times, recording to the exigencies of the pub-

his service 18 Such transfers should, as far as is possible, take place on the lat of the month, for the simphileation of accounts

19 To enable agents to cender their accounts promptly and to wind up their affairs, 15 days as a maximum, besides the distance time between the two stations.

Accounts with a allowed these on full pay any temporary season thus created being filled up during the interval by the executive commensurate officer or officers concerned 20 As gomestrus, especially cattle agents have frequently to cater into airingements with traders and agriculturists for their supplies, such notice as may be Comostrhs agreements with tra-

practicable to enable them to terminate or transfer such agreements non will be given them 21 Transfers within the cucle may be sunchosed by the deput, commissary general, subject themly to aution transfers from one circle to another will be ordered by the commissary general another will be ordered by the commissary general Anthonty to sanction transfers

22 When transferred on the public service, on emergency, or in ordinary perceden letter, the agents will be reviewed by rail road, the full by during the authorized percent for the relief, the agents will be entitled to free passage by rail, 2nd class for themselves, and 3rd be entitled to free passage by rail, 2nd class for themselves, and 3rd Travelling expenses by mal road, or neer steamer

or near steamer class for one servint, also two maunds of luggage for themselves, and half a maund for the servint or 4 amns a nule when travelling by road. By river steamer they will half a munic tou too service or years to be servant receive this class passage and passage for servant 23. If the transfer take place on pravide grounds, or by mutual agreement smothered by proper authority, both rehering and relevaed agents must make their own

arrangements 24 In all cases of certained allness rendering a transfer necessary, Transfer on account of illness such transfer shall be considered as on public grounds

25 It is to be undeasted this, discrete expensive consistence as to purve genomes.

Transfer to an ufferor dress as markers dress status or stageg, but it such exec, unless the or a marker dress status or stageg, but it such exec, trains the or events of the consistency of the state that the state of th

All agents must implicitly out gossome, to prevent permission compressions.

All agents must implicitly out groundly obey all orders from compression and only whatever made penalty of discusses a detaching them on any duty whatever under penalty of discusses a rad forienture of security deposit or other Obediesos of orders

penalties of their agreement

(919) Appendix IV

5 He is under the direct control of the executive commissariat officer, and should carry out his

orders exploredly

On the creat of contractors tendering inferior supplies of any kind it is his duty to at once
bring the same to the notice of the cuttle surgeant, and, subsequently when office opens, of the executive commissarint officer himself

7 When there are no confractors, the supplies, as a rule, will be arranged for by the critic gomestali, and he will be held pecuniarily responsible that they are of prescribed qualities and of full.

weight of number &c, and that only a proper price he prid and charged for them.

8 He should see that proper a stale is kept in the cattle lines day and night, and report anything amiss, without delay to the cattle sergeant in the first instance, and subsequently to the execu tive commissariat officer

9 He will have the appointment in the first instance of cattle attendants and memal servants, subject to the approval of the executive commissariat officer, and he should be careful to engage and

retun such only who are respectable, honest and suited for their special duties

10 He will see to the correct and poincipal preparation of daily reports and returns and monthly

vouchers

11 He will be responsible for the correctness of the Government scales and weights used under

his clarge

12 The critic attendants should be paid by him in the presence of the cattle sergeant as soon as

12 The critic attendants should be paid by him in the presence of the cattle sergeant as soon as funds are placed at his disposal for this purpose by the executive commissariat officer and he should carefully keep up in requittince roll book, which should be filled in in the presence of the cattle seigeant at the time of payment

13 He should attend the cattle lines at least twice a day, i.e., morning and evening, at grooming

and feeding time

11. He should be careful to report at once any appearance of suckness amongst the cattle in the first place to the cattle sergeant, and subsequently to the executive commissariat officer 15 He should report all easualties at the office the day they occur and account for the index of

the Government bullocks that may die, also for the every of elephants deceased, or when the tusks are trimmed 16 The cattle gemastrh should be exceful that the Government bullocks are properly brunded,

and that the marks or brands are renewed when necessary He should pay special attention to the elephant fetters, that they are always in good and

serviceable order 18 He should muster duly all Government cattle in their lines or at the station, and report

all deficiency or irregularities at once to the eatile sergeant and to the executive commissional officer.

19 He should arrange for the equitable distribution of duties amongst the eatile and their

attendants and see that the Government bullocks are fairly worked and not overnuch
20 He is to carefully obey all orders assued from time to time by the assistant commissarygeneral under whom he may be serving

L R CHRISTOPHER Colonel, Deputy Corn useary General Central Carole

APPLNDIX B

DUTIES OF DEPOT, CODOWN AND STATION AGENTS [IV ONE PERSOV]

For station duties, see Appendix A.

2 He is personally and pecunianly responsible for the safe custody and condition of the Government stores &c , under his charge

3 All Government stores &c , should be kept under double lock, one set of keys being in the custody of the warrant officer, and the other set in his charge

He should inspect the stores and stock daily, aded by his establishment, and see that they are in good order, free from vermin or white ants, &c , and that the rooms are properly cleaned in good other; net with which to which and yet, you can also core in the property executive commission to file and all depretaments or the property executive commissions officer, and all depretamental orders or nices and regulations but down for the propes constitute of more continued to be charged.

He will comply with all orders as to the repairs, renewals or replacement of stores or stock

6 He is required to keep the godown books in Daglish, and according to prescribed forms punc-ly All registers or ledgers should be posted daily, and belance signed to as correct

under his charge, and also as to the precuring of supplies or stock under written orders, and in all such matters he must use vigilance and practice economy, doing the best he can, and at the smallest expenditure possible 8 He will duly and puncturily render to the excentive commissariat office, on the dates fixed, the monthly recounts in English, and will report all recents and issues to the office immediately they

occur and in the minner presented for his godown
9 He will report thy inegularities of whatever kind he may observe first to the warrant officer

m joint of uge of the godown, and also to the executave officer 10 He should sohert that all orders of importance or creative of expense be given him in unit-

ing, as without such written onch ins charges cannot be admitted

If He will east thit the godorn establishment perform their several duties properly, and with
undergray, properting up and so in sushbardenton or can leaseness to

If will sit not the executive effice only when required to do so

12 He will sit nd the executare office only when required to do so 13 He is responsible that none but correct measures, seriles and weights are used in the godown

L R CHRISTOPHER Captain, Deputy Commissary-General Central Circle

APPENDIN C

BETH OF VICTUALIZATION OF APPLIE

He should attend but at the ration stand and hospital at presented hor , and supermited at the former the neighborst and dis ribution of the duly rations. At the hop all schools rate he Le, should be much ever to the purveyor, and his recognition on delivers 2 He will be responsible for the Government and contractor's steres made over to buy and

duly recount I r the same in a duly night 'er, and at the end of the month, in I nightly, in the I mis

resembed for his account which should be given in on pri cribed dates

3 He should to that the dry store-room is kept clean and in good order, and carefully vents lated every morning

I He should cause all grownes to be wearhed out at time of as up by fixed and and as

responsible for the correctne acf the weights and scale

5 The victualling gamastah as well as the victualling a regard should both be are out at the come and shutting of the dry store rooms and during the whole of the interval that this ir open One has should be kept by the victualing gomestab in his own custods, and the other by the notment il authorities. All doors that are not barred from in ale should be furnished with two gold Loghsh lock 6 The victuriling gomestah should be excelul not to expose ter in large, but should keep it, ii l

the other stores in proper cases or receptacles prepared for the purpole, and all state tak not the ration stand, &c., should be so in small boxes or even ters suitable for the purpole and not in large

He should see that a sufficiency of pure clean sand is ready for the little when required He should bring to notice any irregularity he may closerse, a porting at both to the vi trailing 8

rergeant and to the executive commissariat officer 9 He should be excelul to obt on duly industs and mempts for the rations required and actually

resued, drift and panetually

10 He should require all or less creative of expense to be given to him in writing

11 As he is hell to possible f r the due accounting of the stores in his thinge, his peon and weights a and a tible-horest generally should be appointed by himself, but he must be careful to loop up the number he elarge for

12 He will attend office when required by the executive commissariat officer, and if necessary

accept as a chief in the office.

 On ar amout preceding to Purope or to another presidents, &c, the connected rall his establishment will be true-forced to their history region at, being greated free rule preceding the unit. travelling allowances to end to them to join their new corp. This will excive full pro during the interval, as in the case of other regimental e tallishments, quarternia ters &s

11 Artillers som ist the will belong permanently to their stations and if is joured to move with lation o will retorn to their parament of those on the expertion of the command at Government expert. The rull, however, to lable to be transferred to other state or

1. The victualities same tab should obey all orders received from the executive emanuscript officer, and comply with all rules and regulations had down for his guidance or for the conduct of hi duties

li. Nothing should be rapplied without an indent properly authorized and no irregular expends ture should I in turn I sixtlent due with rits in writing

17 When the secondary most shows he required from over and references received and

do so prouth and discussed metally just the runs at to office or the treasure, according to be standar, cle mana, quanta a will led this instant drouged his meteral his first leving list in for the manh, he study plates written instructions from the

executive on a martely rice in daily continues

19 Wi continuated to should elt unreconcental order, subject to enformation for all ex-

perliture required take even period

20 He will be will be often you correct dide wherever in purchase ar in 11) has one to a like dull be that the artist of their quantities of outcome and all all artists and an unit. errially enter tim the nerral numbers the evaletic reaction pt, and at the end of the man't frommerly expectly, if the narch is pritrated, his all end but his nor unde in Inglish as I've ented be to date in forms, duly supported by the cand all us a 27 touchers

> L R CHRISTOPHIR, Clord Dr. to Com it is Good le 6 tellede

APPENDIX D

DUTIES OF PURVEYORS (HOSPITAL)

See the rules (vide Circular No 68 of 1877) for the guidance of purveyors which appear to meet their case

> L R CHRISTOPHER, Colonel. Deputy Commissory-General. Central Circle

H

RULES FOR GUIDANCE OF PURVEYORS

I -Classification I There are to be two classes of purveyors consisting of 1st and 2nd class

II ~Qualification 2 They must be able to read, write, and render accounts in English

3 Security to be for 1st class Rs 1,000, and 2nd class Rs 750 III --- Secunity. These men will be under the control of executive commissatian officers, by whom they are to be appointed, subject to approval of deputy commissivy general IV -Appointment of the circle

5 They are to be apportsoned, as far as practicable, as V -Establishment and appointment follows -

let class purreyors -To divisions and brigades of artillery, regiments of cavalry and infartry, large convalescent depots, a mgs of regiments, and a force of artillery consisting of two batteries

2nd class pureyors —To separate britteries of artiflery, and for all detachments of European cavalry and minutey with which hospitals no established under medical officers A reserve of 15 per cent to be kept on actual number of posts of purveyors for muscellaneous

6 Then establishment will be as follows -

		Regiment of infantry	Regiment of entity	Brigade of royal art liery or royal lorso artille y	Batters of royal artiflery o royal bores art lkry
P revoyors servants Cloff ier Tation Wast ermen	* * * * * * * * * * * * * * * * * * *	2 1 2 2 lead and 4 ordinaty	2 I 1 1 herd and 2 ordinary	2 1 1 1 head and 3 ordinary	1 1 ln one 1 head and 1 ordinary
		And in proportion be sancta	a for parties for sine aped by the Deputy	Her strength and fr Inspector General	r samtara as may of Hospitals.
Peon .		1	1	1	1

7 The pay of clothers, tailors and washermen, who are 2nd class hospital servents, will be fixed Centroller of Mulary Accounts by the commissarrat department according to circumstances of situation to 959 dated 26th April 1873 and The pay of the purveyors' servants to be Rs C, and of the peops Rs 5, Moderal Code of 1851 Chapter 8 per month NB -Paragraph 30

In cases of detachments from European corps with which the full establishments as prescribed Medical Code of 1857 Chapter XV for regumental hospitals, respectively, are maintained, proportions of purvey ors' establishment are, as in as numbers and description of each class permit, to be furnished from the perminent height establishments of corps respectively.

Where, however, the requirements of detachments from the same corps exceed the establishments. available, application may be made by the medical officer to the deputy inspector general of hospitals of the circle for such extra establishment as may be shown to be absolutely necessary

9 Purveyors' establishments will not recompany troops by rail, if they are not to be attrached to the troops after arrival at destination, but, with the approval of the medical officer, he discharged but if the medical officers order the establishments to accompany troops, the puncyor, in such case, should obtain the medical officer's written orders and if the pourcey by rail does not temminate at destination, but is followed by route march, the purveyors establishments will recompany the troops to destination

10 When troops quitting a station are related by troops to which no purveyor's establishment is attached, the establishment of the departing corps, if not required to accompany it, may be retained.

to do duty with the relieving corps

11 The permanent purveyors and the establishments of regiments leaving the presidency or going home will be kept on pay until appointed to mother regument. In the same manner as quarter-masters and other regimental establishments are, under the provisions of G O C C No. 150, dated 25th June 1970

Salaries to be list class Rs 50, and 2nd class Rs 40, with half salary in addition as

VI-Pre batts when on the march

APPENDIX C

DITTES OF PROPRATEING COMMERCE

He should attend daily at the ration stand and hospital at prescribed hours, and superintend at the former the weighment and distribution of the daily rations. At the hospitals such daily rations, &c , should be made over to the pureyor, and his receipt taken on delivery

2. He will be responsible for the Government and contractor's stores made over to him and

daily account for the same in a duly register and at the end of the month, in English, in the forms prescribed for his accounts, which should be given in on prescribed dates

3 He should see that the dry store-room is kept clean and in good order, and carefully vents lated every morning

4 He should cause all grocesnes to be weighed out at time of issue by fixed scales, and is

- responsible for the correctness of the weights and scales 5 The victualing generatal as well as the victualing sergeant should both be present at the opening and shutting of the dry store rooms and during the whole of the interval that they are open
- One ley should be kept by the victualing gomest in in his own custody, and the other by the regimental authorities. All doors that are not harred from inside should be furnished with two good English locks 6 The victualling gemastah should be careful not to expose tea in bigs, but should keep it, and
- the other stores in proper cases or receptacles prepared for the purpose, and all stores taken to the ration stand, &c , should be so in small boxes or canisters smitable for the purpose, and not in bags
- 7 He should see that a sufficiency of pure clean and is ready for the filters when required 8 He should bring to notice any irregularity he may observe, reporting it both to the victualling

sergeant and to the executive commissaint officer
9 He should be careful to obtain daily indents and receipts for the rations required and actually

assued, druly and punctually

10 He should require all order creative of expense to be given to limit in writing.

11 As he is held it sponsible for the due accounting of the stores in his charge, his peen and weighnen and establishment generally should be appointed by hamself, but he must be careful to keep

- up the number he charges for 12 He will attend office when required by the executive commissariat officer, and if necessary
- assist as a clerk in the office
- 13 On a regiment proceeding to Europe or to another presidency, &c, the generatal and his 13 On a regeneant proceeding to Barope or to sancher presidency, for, the generals and has establishment with be transferred to the ruberup segments, being greated froe ut-press or the unrul travelling allowances to enable them to join their new corps: They will receive full pay during the interval, as in the case of other reginerated archibishments, questrements; skie

 11 Antilleu gomentals will belong permanently to their stations and it required to move with butteres will return to their permonent station on the expertance of the commond at Government expenses. They will, however, be liable to be transferred to other stations.

 15 The returning generated should obey all orders measured from the executive commissionate officer, and comply autia all rules and regulations laid down for his guidance or for the conduct of his

- Nothing should be supplied without in indent properly authorized, and no receptain expenditure should be incurred without due authority in writing
- 17 Where the vertualing genesish may be required to recover and receive over money he should be so promptly and afterwards punctually pay the same into effect of the treasury, according to his standing orders, any missippropriation will lead to his instant demissible.

 18 Before leaving his station for the much, he should apply for written instructions from the

executive commissant officer for his duty guidence

19 When on the murch, he should obtain regimental orders, subject to confirmation for all ex

I when the time there, are second over a regularization counts, suspects to community as a penditure required to be as supported and the second to obtain price current dually whenever may practices are made by him are such, and he should see that the articles purchased their quantities, does, rate und amount be all carefully entered in the periodicinaments by the oval observed in the periodic does not be spot, and at the end of the month of the country. (command) or month, if the march is protracted, he will submit his accounts in English as prescribed both as to date and forms, duly supported by these and all necessary vouchers

> L R CHRISTOPHER, Colonel, Deputy Commissary General, Central Circle

APPENDIX D

DUTTER OF COMMAND GOMASTAM

See Appendiess A, B and C for the preticular duties which affect them whether as m charge of earlie or stores or is victualling agents. Command geomastalis should be furnished with written or printed orders for their duly guidance on all points affecting their charge on duty

L R CHRISTOPHER, Colonel. Deputy Commissary General, Central Circle

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APPENDIX E

DUTIES OF PURVEYORS (HOSPITAL)

See the rules (vide Circular No 68 of 1877) for the guidance of purveyors which appear to meet their case

L R CHRISTOPHER, Colonel, Deputy Commissory-General, Central Circle

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RULES FOR GUIDANCE OF PURVEYORS

1 There are to be two classes of purveyors consisting of 1st I -Classification and 2nd class

II -Onalification 2 They must be able to read, write, and render accounts in

3 Security to be for 1st class Rs 1,000, and 2nd class Rs 750 III —Security 4 These men will be under the control of executive commissariat officers, by whom they are to be appointed, subject to approval of deputy commissiry general IV -Appo atment

5 They are to be apportuned, as far as macticable. as V -Establishment and appointfollows -

let class purreyors -To divisions and brighdes of artillery, regiments of cavelry and infartry, large convalescent depots, wings of regiments, and a force of artillery consisting of two hotter res

2nd class processors -To separate batteries of artiflery, and for all detachments of European eavilry and infantly with which hospitals are established under modical officers A reserve of 15 per cent to be kept on actual number of posts of purveyers for muscellaneous

Their establishment will be as follows -

		Regiment of infantry	Reg ment of earalry	Brigade of royal artiflery or royal horse ertallery	Patts y of roy lartiflery or royal horse artiflery
en a	in	2 1 2 1 herd and 4 codesary	2 1 1 beed and 2 old nary	2 1 1 1 head and 3 ordinary	1 la one 1 la ordinary
		And in proportion be sentite	for parties for sma ped by the Deputy	ller strength and fe Inspector General e	e samtana as may of Heepstals
Peon		1	1	1	1

⁷ The pay of clothers, tailors and washermen, who are 2nd class hospital servants will be fixed by the commissariat department according to circumstances of situation Confineder of Military Accounts by the commissariat department according to excuming these successions on account of the pay of the purpopers' servants to be Rs. 6, and of the poons Rs. 5, per month Med ext Code of 1851 Chapter 8

In cases of detachments from European corps with which the full establishments as prescribed Medical Code of 1857 Chapter XV for regumental hospitals, respectively, are maintained, proportions of purveyors' establishment are, as far as numbers and description of each class permit, to be furnished from the permanent hospital establishments of corps respiptively. Where, however, the requirements of detachments from the same corps exceed the establishments available, application may be made by the medical officer to the deputy inspector general of hospitals of the circle for such extra establishment as may be shown to be absolutely necessary

9 Purceyors' establishments will not accompany troops by rail, if they are not to be attached to the troops after arrival at destroation, but, with the approval of the medic 1 officer, be discharged, but if the medical officers order the establishments to accompany troops, the purveyor, in such case, should obtain the medical officer's unition orders, and if the journey by rail does not terminate at destination, but is followed by route march, the purveyors' establishments will accompany the thoops to destination

10 When troops quitting a station are reheved by tacops to which no purveyor's establishment is attribud, the establishment of the departing corps, if not required to accompany it, may be retained.

11 The permanent purve ors and the establishments of regiments leaving the presidency or 11 The permanent purve ors and the establishments of regiments leaving the presidency or 11 The permanent purve or and the another regiment, in the same menner as quartergoing home will be kept on pay until appointed to mother regiment, in the same manner as quartermusters and other regimental establishments are, under the provisions of G O C C No 155, dated 25th June 1970

Salaries to be 1st class Rs 50, and 2nd class Rs 40, with half salary in addition as M-Pay batta when on the march

13 When proceeding from one locality to another on duty other than with regiments (in which case butta is allowed) purveyors' traveling expenses will be governed VII -Travelling allowances by the rules that apply to gomastalis

14 The purveyor will be allowed a p41 for his own use on the much with a corps

15 Purreyors will not be required to live in the quarters provided in the hospital compound but may sleep at their own homes, and occupy the quarters provided for VIII - Quarters them during the diy fo meet the eatra expense thus thrown on purveyors, compensation in heu of quarters, at the rate of Rs 10 per M D No 946 dated 21st August 18"2 and Co mu usary General's Curcular Ac 63 of 1873 month for 1st class, and Rs 7 per month for 2nd class, purveyors, will be drawn

16 Purroying duties of hospitals are to be performed by the commissional department through the agency of purveyors, who are to hold the same position to medical officers as victualling generatins to commanding officers of IX -Dut es of purveyors

regiments 17 The purveying duties with detachments, where there is no hospital under a medical officer,

are to be performed by the gomast-h

18 Purveyors will rittend at the hospital at such hour as may be fixed by medical officers to receive then instructions

19 A verbal duly report will be made by the purveyor to the commission officer, but it should be in writing when there are any complaints to be made to prevent misunderstanding.

20 Though purveyors are entertained and paul by executive commissarrit officers, they must attend implicitly to the orders of the medical officer, who, however, has not the power to remove a This will be done by the executive commissarint officer on a proper representation by the medical officer through the deputy inspector general of the division, a report of the circumstances

being made at the same time to the deputy commissing general of the circle comp must then street time to the copyright commissing glocking of the end of the complex of the that my particular orders should be given in writing previous to compliance. In cases of real emer-

green to the design of the second to the previous to configurate the case of t

23 Whenever my article of duct is ordered which may appear to the purveyor unauthorized by regulations it will be his duty to point it out to the medical officer, who will then be responsible for the issue of the doubtful supply Omission on the part of the purveyor to do so will not, however, relieve the medical officer of responsibility

2) Purveyors are directly responsible to commissionat officers for all articles in store but thay have no further concern with articles once assued to medical officers, unless they are returned

2. Any discrepancies between issue and return to purveyors by medical officers to be at once represented by the reverser to the medical officer. 20. The represental lab sects the tuning of cooking iterals &c, as required by the medical officer, she will take steps to estatify himself that the work is properly done, the conductor for tuning attenties for branche leng employed. As to the tuning estitleste, so rygraph 53

Purveyors will accompany corps on the march, performing the same duties as in cantonnents
Purveyors are in no way concerned with the following general duties of hospitals — (1) Seeing to the cleanliness and order of hospital buildings, and bringing to notice

repurs needed

Seeing to the cleanliness of privies and urmals (3) This dhung is properly applied to the pans, that the stool pans are emptied as required, and disinfected when directed.

(4) Seeing to the cleanliness of Litchens, cutting up of rations, and distribution of diets duties

Charges of renewal or repairs of furniture Arrangements of bed head tickets, cots, chairs, table, close stools, &c

Lighting of hospitals

Purveyors will have charge of oil for hospitals, and see to its prescribed assue, that is the purveyors will measure over the presembed quantities in bulk to the hospital sergeant and oil cooks, when his responsibility will cease

once in Esponson or cases

30 Rule 57 striets that purreyers will not preprie that rolls similarly purreyers will not
printer requisitions which subsequently become the vouches for the issue. Survey or committee
profess on jury-cast stous will be propried by the pure of our line or or, but he will not propose obtained
propers unconnected with his dollers, for instance, projectivates and market rolls of longital establish ments Purreyors will on a march prepare indents for carrage for stores under their custody but not indents for carringe for sick, or for camp equipage of hospitals, which will be prepared, as herefolded by medical officers

In the interests of the sick, medical officers will occasionally inspect priveyors' godowns and see that stock as kept up to scale and an assuable order, reporting

X -Duises of medical officers through deputy inspector general when necessary

28 Articles of dotting and belong, hospital, nucellancous articles, socially uterals and dath and the requirement of the purvey, and grace and an experiment of the purvey, and grace and an experiment of the purvey, and grace and an experiment of the purvey of the purvey of the bore criticals are to be strendly subtracted to by G G O No 201 of 1872 the commissarint officer, but in the event of un excess being required, the commissionat officer will supply them on the authority of the deputy inspector general of hospitals

When the necessity for the excess supply has ceased, the articles will be returned to the commissarrie godown, and be borne on executive commissarrat officer's reserve stock return

govern, and coefficient contention commission to the design and children and muscellaneous inteles

3. They will receive for the manch as supply of bedding and children and muscellaneous inteles

6. G. O. No. 303 of 1872

1. From the march any viteles of heyntil supplies, such as lines and
poullice myternis, &c., which would need to be fresh, are required, the pure year will parchase them

and hand them over to the apotheeary

Purveyous will receive for the march an advance of each and consumble stores as necessary 23 Purveyors recompanying troops by 1:nl will be simpled with the hospital equipment
authorized for troops recording by 1:nl, with overplain of the in of
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officer The rul equipment of troops proceeding home was Bombay should be made over to the lep6t officer at Deolah or to the executare commission officer at Bomb iy, and his receipt should be forwarded by the executive commissionat officer as his voucher for the issue

by the contrate continued that has begind for the entity of small reserves of the averal 35. An immals will be allotted in the begind for the entity of small reserves of the averal 2 Cuslofy stores likely to be called for on entangency during the vibrance of the stores likely to be called for on entangency cannot be a small of the contract of the stable-liment 37. In this climing a sufficient supply of stores will be I got for ent uptil demands and in the stable supply of the stable limits a sufficient supply of stores will be I got for ent uptil demands and in the

M D No 946 dated 31st Angust absence of the purveyor at night or other time one of his establish-1872 and Communicary Green's Cur ment will be entirested with the key, and will be accountable to the other No 63 of 182

No 63 of 18/2 purvey or for all issues 38 Articles of clothing and bedding, hospital miscellaneous articles cooking utenuls and dict and table requisites as per scale authorized, are to be kept in charge of

G G O No 303 of 1872 the puries or

39 The authorized stock of the above articles, as well as a sufficient stock of liquors and articles of consumption will be supplied to the purveyor by the commissarrat officer, and will be kept

in the purveyor's store from

40 Hospital clothing bedding, and other hospital equipments no longer wanted by troops will, under the purceyor's system, be secreed into stone by the commissant on a corps leaving a station either for Luiope or in course of relief a committee of medical officers, or, if not pricticable, a mixed committee will report on clothing and hedding and other equipments left behind, serviceable articles, as

they are or after regat, will be tall on over by commissanist for reassne, and condemned articles disposed of 41 One shulders with closed ends will be allowed for the purveyor's stores on the march, instead of the stores being kept in the new pattern private a tent hitherto allowed for both purveyor's

and apothecury's stores

43 The executive commissaint officer will half yearly inspect the stool of clothing and other 3 Inspection, survey and con articles in charge of the purveyon, and any articles considered un-5 inspected, survey and one numers in compact of the purveyor, and any structure communication formation of the purveyor, and the submitted to a bornel of survey compaced of nutdited officers, if possible, one medical officers must be present under any current trues. But if duming the unternal medical officers observe that studies asset for me one becoming unserrorchie, during on more in ductor thanks conserve was them above to the two co-colouring materiary that they should report the fact to the commissions officer through the Departy Imperior formeral of Hospitals, with a view to an intermediate supply 43. New supplies must be surveyed it the commissional godown before being mide over to the

purveyor The medical officer of the regiment to which the purveyor belongs if available, should be a member of the committee that surveys the supplies and the purveyor should also be in attendance on the committee. The supplies should then, in the presence of the committee, be stamped "Indian

Government," with date of issue

44 Dieting articles and liquous considered unfit for issue should be submitted to a committee — Zoweng means that appears commoned usus are means about a committeed to a committee to rule to be found it page 1.56 of commandant brauell, but if the studies run only of a greater aggregate value has Rs 20, they may be deserved of by the executive commercers' obligated without survey by a committee, as directed by G G O No 506, duted 230k Spettember 1556, in the case of less majory, or distructions of Government property. When articles aggregating RS 30 and a relation of the committee of the case of the sample of the direction of the committee of the direction of the direction of the committee of the direction of the committee of the direction of the committee of the direction of the committee of the direction of the committee of the direction of the committee of the direction of the committee of the direction of the committee of the direction of the committee of the direction of the direction of the committee of the direction of the dire off the articles

Commissariat officers will arrange to have stock taken monthly by one of their European

4 Stock taking subscributes, of articles in change of parreyors,
4 Stock taking subscributes, of articles in change of parreyors,
46 Repairs to hospital dolching and bedding, and hospital suscellaneous criticles, cooling
5 Repairs

6 Repairs

7 Repairs

8 Repairs

8 Repairs

5 Repairs under the supervision of the commissional department. Charges for Gualior Laboro Alinkabad Rawal Penda repairs to the above articles if less than Pestan a Lahore Mecant Rs 50 m a month m a first" class executive, Licknow and Rs 20 in a month in a second† class Kussanh executive will be passed on the counter-agratme of the bill by the executive com-Seallate † Cawnpore Danaper Mooltan Agra Perorepore Saugor massarrat officer, but if the charge is more, the work must be submitted to a committee, Benares Dargeeling Umballa Joline Costroller of Multary Accounts No 4200 dated 6th Septem. and the charge supported by committee re-

ber 15.2 to Commency General port.

47 Parveyors will draw them supplies from contractors or departmental agents according to instructions of commissant officer, but any very minor raticles required XII -Dicts and extras for immediate resue, or petty repairs may, under special sauction of 1 —Supply the commissionat officer, be purchased or arranged for by the purchased

M D Ac 298 d.ted 7th January The commissariat officer will be held responsible that there is no 187 enlargement on the permission given for minor purchases or petity repries being arranged for by the purveyors

48 Art cles p oveled by contracts a me to be a pplied in presence of parreyors
49 Atten ap word of these phiese by the med end officer it by should be a nile over by p revor
to some host full subording to ble med end officer who will see to their propart on and same

50 Art cles of detanders are to be supplied by the purveyor of a memorandum with which he will be furn shed a cry morning a gnel by the malical officer speed ing the number of sch a d the different linds of deta dext as to be provide l

Iss es to principalite it e mor ing vis tol the medical offeet will be slown a the diet oll kept in hospital in the roll sent into the commisse at the glipmiveyor daily and in the monthly diet roll

P reverors will be responsible for the quity of articles 1 onded by themselve by the segments and the supplied by a contractor on by departmental agents of the common search of ear will be responsible and the purreyor will at

once draw the attention of the latte to my indire in q intity or quality
3 Barn. in die nes and dospital necess as as per latest son troued scale will be supplied on nonthly requestion from medical XIII - Bozzar med ne off cers

As a temporary measure and until the general question of medical commissa at forms as settled

by Government (i s requisit on will be ecording to 1 orm C attracted 1 8 p ly Control or of VI to y Accounts No 6J 3 d ed 22nd October 18 0 which includes a taining certalicate empty bottle return and certif cate of leecles and 11 at a leaves spipled. The month srequer munts (except such a belies as reque to be freshly applied). It be and pare 5 of MIt. y Department No 208 date1 th Janus y 1873 male o e n one ast lment to tile medical officer who will place the

supply in clarge of the spothecary for is a se required.

Until the subject of model commission and to me a settle 1 sixtonery will a undented for

monthly as at present and received by the medical officer direct from XIV -St tonory the comm ssarat officer without the ite ention of the jur eyer 55 Before passing the accounts the commissariat officer will check the entires with the month

XY — D to be ly diet of ly tiel must be under up by the nel cal diet as it derives the large to the case of the ca

er ly a date as p act cable

56 The det roll sent in daily to the commission at in recording with paragraph 7 of G G O In the ten returns a many to are commission in the commission in the commission of the return of the commission of the return of

An unsel of to not the rely equation for diet and extra visus the unsel of use and the same that the of the medical offer must be attached to the pay bill as author ty for XVI -- Accounts and road ers XVI -- Accounts and rouglers if the gear

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A daily and b monthly bilinese book of clothing and hedding lospital miscellaneous articles

cooling utens is and their and trible requisites will be lept ly purveyor according to Points A and B" attached in which all issues to I espitals will be it alle I by the modical officer

of The recount of edding and clothing and miscellance is a ticles supplied for use on the march will allo be as per Forms A and B 1 then in led to set the smaller number of a ticles

60 Lu vezo s vill render the need pis to commissarrat office s v ensl necount or dister as b) In why a will remote the necon that to commission the like a size and account of relatives as Perm D account of clotting be high and unsuchances whole so only thus is of which are unsuch as per Terms A on in B (the carge of account (A on It B)) exploy purveyer will be set into excount server of these ones account of these not account as no to be a devel by pin eyes security on intent that the relation of the carge

6º Tie voile segrel n connec on ath purveyors neconts rendered by executive com 67 The rot is significant connection with prince on a resolvent by executive comes measurable one will be survey provision old will never obtain a few to will be for a ply strength of region 2 and a range when of a do to be noted in a recy open that is column a lade for put the number of the communities must be recommended as the few contraction of the communities must be recommended as the communities must be reflected as the recommended as the meded of e specifing at cofreques commission of all of agent or supplier countries guel by the commission of one of commission of the comm

commiss from ce of committees por unset the creamstrance ergin means a very or and officer all of the complex industries o

61 The pur ever's recent of by orser of consumable articles as per Form E all be embaled in the comm are to officer's mo they store return and not saturated to the examiner masepar to account

Colonel R A Mosre, Acting Comm wary General Midras

(a) Tide" statement A annexed (b) Fide statement B unnexed

(a) Fast statement to running To given a detailed second of all the duly duties performed by every individual in the commissant department would take up too much time and spice. And it is doubtly whether their multifunous duties could be detailed with perfect recurse; (a) Fall's tatement C amazod.

Statement of Cost of Personnel of the Commissaries Department in the Madras Presidency as talen from the Rudost for 1879 SD

	ine Dunger J	84 TOLS ON				
Execute e Establishment-				Rs	A.	P
Officers				3.21 079	10	0
Warn int and non commissi	oned officers			78 095	6	0
Office establishment				87,985	8	0
Subordinate Establishment				,		
Rogimental establishment,	muching allow	ances and contin	gencies	5,925	0	Ð
Hospital purveyors	~	***	•	15,660	0	0
Godown establishment				32 100	0	0
Cuttle establishment	***			2,11,961	4	đ
Doolie bearers .				1,81,498	14	0
		Total		8,82,314	10	4
				-	-	-
Commissaely-General's Office,				MOORE		
Madras, 27th August 1879			Ac	ting Comm	25¥7	9-G

Printed in abbre nated form

Statement of all officers and persons explained in the Commissariat Department

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CONCLISERTY GENERAL'S OFFICE Concluserry General's Office }
Madras, 27tf August 1879 }

Madras Presidency, under the several leads Account, Supply and Transport

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R A MOORE, Colonel, Acting Commissiony-General Com M

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Statement of the average Number of The repeats feet at each Statio well's Medicar Preside by from April 1877 to March 1878

	14	I S IN TRIVING TOO		
				Average number of me per
Bungalore Bellury				1 (00.4 715 pr
Cultent				91 🔏
Cannanore Kamptee				595 (\$ 81)
Madris				630}-
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Secunderabad	14110			224
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cenant-Colonel W W W I	M. a manuscript			hudant
Acting Country us be Sombay	_	t monthly cost is a	s unuer, as per	-
	Statems			Mouthly cost Rs A 1
Db	1 Commissary Go	meral, Deputy C	mmissary	
Bombay) General જા	id Establ shment		6107 0 0
Boml ay Executave	:			8 823 0 0 6 228 0 0
Peona ,, Ahmednegar,				755 0 0
Mhow .				5 575 0 0
Nussecrabad ,				2035 0 0
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Purandhar ,	33			114 0 0
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Ruthm ,				43 0 0
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Acts—The grand total of the establish cuts shown a der bruke Account Supply, and Transport will got agree to that of the personnel about solver to it formers and her the cost of the brukery at latter and gut not establisher mits at all of the purposes servent at malf 1 ds a not poss held for said to hape where the local Person and

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479 0 0

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The details re und are grown in the three statements attack and marked de read for As requested the establishments have been divided into the three hereis of sample, transport and around, but that is not the may they are a small, shown and provided for in the ladget

All the clock in end of the office line has shown under the head A security. Supply notified the ment and non-conservation to the content of the three confidency in all buyedons, purposes and stores and online while through other ones has content and non-commissioned officer; may few and offere mid-head to rape are field column will commissionly (a v r age in landing and shapping d they and in receiving and forear ting stores at rules as state of the content of the c

(929) [Appendix IV.

The detail of duty performed by each officer and subscrimatic has been entered as briefly as possible, but if further particulars are required, they can be supplied at greater length. For the duity duty of an executive continuous rate offices, extract your. So of the Administration Report for the year 1877 78, commissions department, Jounday, as given below for the information of the committee.

"Let us the the ordinary routine his of recommissent officer, and see how Im we can still butch him with such. He mass it 5 m s very vest by, not up to 9 m he is engaged version; his search diverge, the impaction of the field colume cittings, commeverate draggid cettle, wagens, and earts, ettle equipments, foregoon digrams, and state of the lines generally, the infirmacy and the datus of a vertenner surgoon keeping up a noiseled lattery of all cases used interment, the balary, the shapiltary and shapilter cattle the godoms and the inspection of ritions at a time stands—all cannot be done com nomaniley, and has commiss are also for the ment put deteroted to such drives, now especially during the princips of the half yearly inspections and survey of stores and steel

"At ten he has to be m office and he remruss these standily (and such its the practice at easy office in the Rembry previously) up to 5 30 and 5 x in a dram much irlors, Sundrys not they are coupled. The office is always a source of mouse sure is hevy monetary transcrisions and responsibility, its continct humaness, its transport dates, its hospital supplies and equipment inspections, its store surveys, its supplies to minuseous either deperdencies, it served issued rate changes at our status convert such articles are considered in the shoulders of one min. How is it possible for any one minimization to be justice to such multifarmous occupations and calls upon his time."

The required information as to the numbers fed it each station is given in the form of a tabular statement (tittledes), whosh shows the total number and duty access number of returns and olds issued it each executive and subordinate strition and sanitarium is the Bembry presidency during the official yea 1878 70 A stations hillo Berlin Asi even p, for instance the druly average isomorphic inside of the string and the string and the string and the string and the string and the issued in made in the 5-5 mouths of the theoring serious.

At Poons the garrison was short of its complement for serveral months, and this was also the case of Karlon and Ahmedungar

at Kurles and Almedrager.

The number of Dangeron fed at any particular station does not necessary gauge the work done
by the commensurat department, because the work depends more on the number of separate comp or
arms of the servor of a statent, then on the setalal number of tropys statened, morrower, the supply of
autions and dests to toops and hospitals does not constitute the whole duty of the commissional department in the Dembery residence.

				Prov	SAOLS	Dn	TS
	Stations	I		Number of rations dur- ing 1878 79	Averagedarly number of rations dur- ing 1878 79	Number of diets during 1875 79	Averagedaily number of diets during 1878 79
Bombry Deolah Poona Kirkee Phrandhar Sritaia Abmedingar Belgrum Ahmedabad Baroda Deesa Alu Mhow Indore Assigath Nusserrhad		:	:	201 3184 51 0241 405,071 125 213 30,670 53 633 82 579 267,098 64 310 59,924 283,9314 411,5591 20,227 14,551 212,0874	552 141 1,110 843 84 147 226 732 176 164 613 87 1,210 55 40 581	19,806 6,241 24,795 11,913 2,423 6,028 9,821 27,287 7,280 14,800 1,066 47,355 1,404,1037 19,579	54 95 33 7 16 27 75 18 20 41 3 130 4 4
Tunguk Noemuch Kurnchee Hydendad Aden		***		6,214 146,7191 261,751 132,2521 294,2913	17 402 717 362 806	1,758 15 222 22 580 10,230 13,813	5 50 62 28 38

Colone V I frust to Olinet up to the Victorius of the Most regards this information, the most neurale particulars can be obtained from the examiner of commissionant accounts, and I telegraphed to the Secretary of the Commission to obtain it from that officer on or about the 14th of August

(b) In reply to the first part, these statisties we also with the examiner of commissional accounts As regards the daily dety of even real, it would be almost impossible from their lung so numerous to give these in defail. I therefore restrict payed to the principal commission of the different being of stations, who are recognized as follows under the different being:

is charge of stations, who are responsible as follows under the different heads

Britis tropy—That their food supplies and luquer, including spirits and mall liquer and the
dots for the sick, both in quarters and on the lime of the march, are of good quality, involving the

cureful supervision of bakeries and strugbter houses, and the frequent inspection of the rathous themselves, the capply of hospital defining and necessines, burn medicines, stationary, bedding, and of hospital servants, of barried supplies, including bedding and lighting, disinfectants and all other barriel necessaries

Makes troops—Supply of braw medicanes standards for the sels, disardeants, strinosary, blund etg, guider entitle—edited as camele, males bulleds—their ream controls, feedings, treatment of the sels, amployment, returns connected with them, control and parent of their attendants, preparing source registers, providing and keeping in repair till gear, distribution of them to the troops to, on the hose of named for which all unargements have to be made in the provision of Government and hard carriege of all lands and of betters for the carriege of the set of Heavis, evolving all tributes, sugarply of great and lain gent, who of gas so core-contill. The supervision of the debuts connected with the above constitutes the commission of other tributes, and the supplication of the stores and easis accounts in uttanding to the preparation of the stores and easis accounts in uttanding to the preparation and collection of contracts, in functioning explanations to the extreme related to the configuration of the stores and easis accounts and which they have been described in a more degree, every as registric secounts with which the no solding to do, these being prepared in the executive office they are frequently phoned in subsoftunte change of genomes, and have supermendedness on theirs, slangitary julys, public cettle it layes statuse. Aucomissional software are interested and generally to every buttery for the junyses of sperious daily issue of intensity of the troops and of due to the sich, and attending generally to their duly requirements.

Native establishment - Agents consisting of three classes (1) station or cattle generaties, (2) godown

gomashias (8) regs no stat or victually ig gominel tax

The first have ordinarily the providing of gram and fodder for the public cettle and of all other articles for which no contracts axis, payment of morreble column establishments in all public cettle articlesards, submitting properly wonched bells for the same. The status geometric has also to patern the duty of monasher and tressurer for pelty sums to the executive communicative follows:

2 d, godes i goneshles —These have change of the stock of rum multi hquor, tee, segm hospital and barrick hedding, clothong, and equipments ind other numerous stores, as decires, i rawal's texts for departmental use of which a certain stock is always muntaned, and nu personally and pocumently resinavible for the above they also pay all go bone establishment, and renders monthly account.

respective for the whore they are pay all go how establishments, and reades meaning that personals of the whore they are pay all go how establishments, and reades meaning around.

Out, rays entité a sectionity generation—One not a fact to each statisty and regionaris, has to know the contract of the c

Precepts have druge of all clothing and hedding in use in hospitals also of all equipments, including crocken trible appointments, cooling mensils, washing of duty clothes, and of the issue of the diets, including uses, &c.

CATLE FSTABLISHMENT

One jemadur for every 20 elephunis, one mahont and celly to each elephunt duties, cuo, enskoly, and feeding and presentation of gear

Contests.— Pay Batta

I dufficier
per 25 camels at stations or 15 when detroised They are not exempt from surwan duty, and
are uncluded in the complement

I surman Pay Batta
per 3 e racks, duties as above

Bullocks -One sudm for every 42 one driver to every 2, duties some as above

Mules -One jem dar to every 100, one duffador to every 30, one muleteer to every 3 dutaes as above

ndore

Dobte beares - Surlars one to every 96 bevers, one made to every 21, say betters to a doch, for
to a dandy. Where a reserve of these men is Lept up during the winter, they are detached with
troops moving in extres of tellef, and in summer are employed in pulling burned pulling.

Be telers, bakers, evolves, of ny rans, weighten t — Their names sufficently indicate the nature of their

Gibe establ dave 1—A head westend, Dampenn or Nittne in phreed in thruge of every office, and has a general superior not of all the clear as a little centered of their word, a.e., considering guardeness and what was on, improve than, of all two-most and returns considered, in the contract of the devery, in proteon of the left estimates, functioning explorations to Tourn are subjected, in the clear of the devery of the contract of the development of the clear of the clear of the development of the development of the clear of the development of the clear of th

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930 9al

731 799

2 282 2 778

29 904 33 715

753 1 014

2 389 2 818

Columei	g 3 Delegrapio-May	(e) The n mber of troops rationed in 1877 78 and 1878 79 s recorded below —	each comr	nissariat range in
Resu sur counts	of Comm ssanat Ac	1877 78 and 1878 10 8 lecotard serving	1878-79	1877 78
Commo	Ranges		1 749	1 833
	Presidency		949	905
	D napore		267	221
	Danjeling		518	583
	Benares		985	962
	Allah dad Jubbulpore		812	987
	Luckno v		3 168	3 568
	Ca vapore		1 236	1 371
	Gwahor		1 764	1 803 3 232
	Agra		1 ° 15 1 214	1 282
	Bare lly		1 273	1 487
	Ran Ll et		2 173	2 427
	Mee ut		1 839	1921
	Umballa		1 753	2 154
	Kaadı		647	784
	J llundur		3 000	3 005

Lahore

Stalkot

Mooltan

Ra vai P adı

Peshawar

I rozepore

May M A Rot land on Ex (c) A statement is 'tituched showing tile 'person of of the commiss samut department at each staten in the Bombay presidency

Total number

Statement above 9 cost of the personal of the Connection Department at each station of the Bonday Pearle of

Cin go pared Charges; us 4 to 1 Total for one count for Juy count to July 1 solids month for July 1 solids month for July 18 8 3 by 18 8 A P Rs A P Rs A P Rs A Rs A Rs A	EMARKS
Rs A P Rs A P Rs A P Rs A Rs A	
As regard 44 10 8 104 0 0 168 10 3 8023 11 1894 01 Nusseenbad 92. 2 4 1009 5 4 1081 7 8 8813 12 24 611 01 Venuch 40 0 0 40 0 0 450 0 912 0 1081 01 01 01 01 01 01 01 01 01 01 01 01 01	(beluded Mhow
Total	

(b) A statement is attrached * I rm not in r position to describe in defail the duity duties of the various individuals employed at each station

(c) A statement is attached showing merige number of Europeans fed at each station

Statement showing the average number of Europeans fed at each station of rung the near 1878-79

Name of station		A unber of rations d ring 18 8 9	Average daily number of rations diring 1878-70
Bombay		201 318}	502
Deolali		51 624 \$	141
Poena		405 071	1,110
Kurl ee		125 213	348
Parandbar		30,670	91
Satura		59 633	147
Ahmednagar		82 579	226
Belgrum		267 098	732
Ahmedabad		64 310	176
Baroda		59 92 1	164
Deesa		223 0414	613
Abu		81 /14	67
Mhow		441 5.92	1,210
Indore		20 227	. ba
Asargarh		14 551	40
Nusseerabad		212 087 1	581
Tungah		6 214	17
Neemueli		146,7491	402
Kurrachee	,	261 751	717
Hy derabad		182,2523	362
Aden		294,294	800

 $5\,$ Does the organization of the commissariat department meet the requirements of wai , and if not, in what way can it be improved without adding to its cost ?

Colonel I I Willes Commissary General Bengal Most certainly not. It is insufficent to meet the requirements in time of perce. Many stations with Birt is troop since no commes oned officers. The scarcity of officers rendered it necessary to order out from England, on the work breaking out overy officer whose health permitted of his return. Not half the number necessary could be sent into the

fall, though, Madras and Bombley were fresh principle. On This behalf we goardly on this as the vary requirements for war even permitted to the property of th

antise even see here winted if in were a matchine when the we broke cut.

The princip of a arranti vad non commissioned officers and Natise a specific may as much felt as the officers. The viges of warrant collectes much imbitated against their efficiency. Choose it is exone, and tenerical resources the collects, non a collection at many chain Rubes, the entern variant officer of the department, ears led Dubar' all through the way, as 60 years of age and was only most into the Upper Bolan when the best between excessive and he was attacked by face "the variet of more variant and non commissioned others was gravelly felt during the late war. Here obtained from regiments, manequated with commissariar work, were not satisfactory, admistrate for trained in the commission of the state of the

Colored R. A. Moore Acting Commissing General Madros

The organization of the commissariat department is good, but it is on a peace footing, and it cannot be improved without adding to its cost.

I enterent Colonel M W W1 long! by triang Commissiony Gen eral Bumbay The organization of the deportment is unequel to meet the reprements of rar, because the exhibitionate which on status that organition and evantually on a prese footing, and brelst spall to ease at prese dates on a resolution the means of editional values on Toorganization too, a defention an equal to Antice request (consisting in Bongl, in Mather preserve) a most metal clars of mean it and for editional consistency of the status of the status of the clark for editional consistency of the status

The only was to improve the commiss arrai department. Form as preadency, rathout a lding to its cost, would be to confide the transitions. to strictly legitimate duties as an army department, is, army supply and transport, and to relieve it of the leterogeneous duties on account of the c ul an l other departments now unjoyed upon it namely, supplies to large eval institutions and landing and trinsport duties for the

Methcal department Ordnance department. Civil Clothing (many branches)

Colonel T H Fibley Deputy Commissary General Bangal

The present organization of the commissatian is not complete to meet the requirements of war, and requires to be largely increased to meet the many extra demands which are made on its resources. I submat appendices marked A, B, C, and D showing the establishments

which are necessary in cantonments and those which must be entertained as extra in time of war. The extra establishments can generally be collected, but longer notice is required then was given in this campaign to collect and send the agents on about as it is necessary to required forth was given in this campages to compare many duties have I can thrown on it is depart-ment which I have submitted could have been more efficiently and economically performed by duect regimental agency I allude specially to the provision of grass and nool for all connected with the troops

These articles the commissions were dured to buy and supply an according where there were no markets and where if see articles could only be obtained by foraging parties. It was postured out that those dates would one yie the time of commissions officers and agents which could be more advantageously compayed in seeking for food and other supplies for the army and that regimental officers, having on race and establ shiments at their disposal (grass entities and others), could arrange to collect these articles far more speeduly than could be effected by the interference of this department

The establishments of grass e itters moving in a country like Afghanistan in winter are practically useless, and add uselessly to the cneumbranees of the army

Δ Scale of bakery establishment recognisended for troops going on son ice

				-	_	
Class of servents	For a European 11., unent.	For a battery	Pay fo		şli	Remarks
One head baker Kneaders, 21 per cent Mate Bhistic Bildur Dhobie	1 21 per cent 1 1 1	1 2½ per cent 1 1	Rs 30 10 14 7 6	0	P 0 0 0 0 0	For fore go territories free rations to be given.
Mate Dhobie Bilder Knaders	l 1 Sper cent m- stead of 24	1	14 7 10		0	

Scale of butchery establishment recommended for thoops going on service

Class of servints	Europeen regi	Battery of artiflery	Pay for each man	Remarks
Meat agent Surder butcher Butchers Coolies Cos het ds Dhobne Blustee Chople ltz Shophelds	1100481112	1 1 1 1 1 1 1 1 1	Rs A P 50 0 0 0 18 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A I red agent. Be 70 w h wnier to bo u th the de 12 on en Re 75 For few ga terniory free ni ous to be go on
Extra				2
Sirdar butcher Dut her Cowhend SI cyherd Coohe	1 1 1	1	18 0 0 9 0 0 7 8 0 7 8 0 6 8 0	

c

Scale of establishine it for depots, purchasing agents, ditienonal godom s, brigade godoms for troops going on senier

Class of servants	C Purel ver g agrant	C I Dejut estib lisi ment	C 2 Desiment go denne extri h Imest	C 3 Brande ge do est b I sheert,	Pay of each	Remarks.
Head purchasing agent Depth's ignuits Ist clars agents Assistant agents Mutudots Writers Carpenters Blacksmiths Weighmen Rum messures Blustes Poons Coolec Sneepers	1 2 2 2 2 2 2 2 10				Rs A P 200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

D

Extract paragraphs 16 and 17 from a letter No 789, datel 1st August 1879, from the Deputy Commissory General to the Commissory General, Bennal

The commissaint staff consists of-

- 1 A principal commissarrat officer
- 2. An assistant able to leep up accounts
 - and office work
- 3 An officer at each denot Ditto Ł with each brigade

The warrant and non commissioned officers should be appointed as follows. All to be permanent 1 Base depôt -The striff of the striion, 3 Dramond godown-

- with extra men given at commencement of the campugn 2 Advanced depôt-1 Semor unirant officer
 - 1 Canductor 2 Sements
- o Sergeants 4 Briga k godown-I Conductor
- 1 Seigeant A victuriling sergeant with each battery and two men for each Laropern regiment if possible

1 Warrent officer

Colonel M. J. Brander O'Teur ing Deputy Commissory General Deput Circle

No, because in pence time the requirements of the Juropeau troops only, and the entile permanently diached to the army, have to be only, and the even perminent is inducted to the simily, rule of provided for, and the evelable liment is lived to meet there only, and therefore does not suffice to meet the great additional demand of invine to provide for the Active troops and a larger body of e mp followers and a garage-namels, which durints on the commissement in time of war. The expend the department, that is, add to its numerical strength in its administrative branche, which is the element at pre-cut deficient, in order to meet this hierare demand, without adding to its cost, is necessarily impossible

Capia n J Rect Denaity Com missary General Bergal

The organization is the best I believe that can be devised. It has heen proved to be good in main a comparent and the corrage and other difficulties which occurred in the late comparing are not, I believe in the way attributable to my full in the system, but to there he ad no same given for p operation and to the economics in troduced inimedi

a'cly after the matins, by which the department a west doe a molificers and establishments so as to reader at land, sufficient in times of peace. It we long level consmood that to make the department really efficient, the number of others of the redoc should be merensed I should a common a merense to commons below the grade of mest and committee). general, let cl , fellow -

10 and reprint at communities, ind that I man a s t pi computers report Bull clar 4 more depth n' commi and general, 2 more deputs animis stacs 2 more and at a minus and lst (I 2 merc d privaces int commessance 4 more deputs 2nd cla " at commer and general, Indels 6 sub a restrict The let class 5 m recidators

10 more sib (or do tors
10 more sibn corp i son d officers I thank not the all on the experiment would be far a one offer no, and its provest good org ? mation gu na tarel

the digiter of his to contend to the and a laber to some other Ther 1 externation in latter that the street and dell for property of that the ran and allowous occur of other courses and the terms of the ran better of outs to be to b or regiment, where he has certain advantages as regards servants. This is a well-known fact—so hard is it that it is scarcely possible for a sergerant with a family to make both ends meet. And this throws him nto very great druger. He is tempted to take presents or to borron money, and, once he does this, his hands are tied, and he is wore than useless. Instead of a help, to the commissional officer and a check on agents and contractors, he joins in their attempts to dreeve and mislead, or it least does not

This should at once be rectified by garing them an increase of pay and allowance of about 80 per cent on what they now get. It would not be too much to emble them to live honestly, and to place them beyond the excuse of temptation. All commissurat officers must feel they have some excuse

I would also propose increasing the pry and allowances of all first class station agents. They get only its 50 a month, or little more than they have to pry for a tre succe and numeric, which they have to maintrum for the other and themselves. These two offices were abolished soon after the mutany, but that it was a mistake every officer in the department can testify. Such agents should not receive less than Rs 150, and the munshi and treasurer should be paid by Government As it is, these men can clum a night to gain on then changes to meet then needful official expenses. They should be left without excuse Agents too in charge of the lugest godowns should get not less than Rs 75 a month And at all stations where there is not less than a regiment of infantly and a battery of artillery the station gemashta should receive the sime

I am aware I have gone beyond the question, but I make these recommendations for the im

I am verce I have gene beyond the question, but I made those recommendations ton the im-provement of the deparlment, having long been convened of their necessity. I will be seen that I deem it utterly impossible to improve the department without adding to its cripense, but the old-tional evapons recommended it I believe, necessary both for efficiency and economy. It is I need not say, sentid polary not to have insufficient vasistiatis or under pad subordarintes when business has to be done and thrugs sense of manney ext need of It is should not, in rivity, vid so much to expense Government interests should be better guarded, and expenditure better checked and controlled

Colonel G S Macbean, Deputy Commissary Gu rol late in Com missarist charge of the Khyber and Kuram Lorces

It does, as far as 50 men can do the work of 100

Licentenant-Colonel J V H mt, Deputy Assistant Commissary Gen eral Bengul

I consider that the system of organization of the department does meet the requirements of war. But that the perce establishment, as regards Caropean officers, warrant and non commissioned officers, as well as Native agents and clerks is so small, that its expansion in time of war occupies too much tame

As regards Native agents and clerks, I think that stricter scrittiny into their capacity is necessary. Men allow work in cantonments goes on satisfactorily are found to be incompetent on service the reason being that in contonments they piecure a good deal of their work to be done for them by others. I cannot suggest material improvement with out additional east

Major M A Roulandse Fa a umes. Compa startat Accounts Bombay

The present organization of the commissariat department of this presidency has mot the requirements of such camp agas and expeditions as have hitherto fullen to ris lot the trunc | men of the department have conducted the special duty connected with the war whilst the ordinary peace duties have been entrusted when necessary to officers and men temporauly employed

Major W Lucklandt, Deputy Assata at Commissary General Um

The organization of the department is entirely fixed upon perce requirements, and consequently does not allow a sufficient number of officers and establishments to need the requirements of an uben the demands on the department are very greatly augmented. Not slone have Nature earsily and instalty who in time of perso and then own arrangements to be provided for but the numerous number of followers

and transport numris of all descriptions who form part of an Indian army in the field is proveried leven in time of peace the number of efficers is found insufficient to allow of any being detached from

current work for speech purposes

I am of opione that all deput timental arrangements necessary in case of a campaign, the probability of which is foreseen for years previous, should be welled out in time of perso in defail

by of whom is torseen or years per once, some on wat use our in time of precess in them. Turther, that the experience deduced from finame remninguis faitable by recorded and ill possible information richture to the nature of the country is resource, and the customs providing with the habitants in that dechange, be calleded, and rely to be placed at the disposal of commercial efficiency when summoned into the field. I may that the opportunity to mention that it appears to me that when summoned into the field. I may that the opportunity to mention that it appears to me that so much importance is unitersally paid in Luropean armies non a days. With regard to insufficiency of establishment, I can only say that experience has proved that any attempt to carry out the heavy extra work which in times of war devolves upon the department with an establishment admittedly inadequate for the purpose must result in utter confusion and lamentable disorder

The only course I can suggest to improve matters without idding to present cost is, that the work in the department in the three presidencies be assimilated to such an extent as to enable the establishment of one presidency to fill resulty its pines if called upon to serve in another presidency. A larger field would thus be afforded from which a field establishment could be distilted. The difficulty which obtains at present is that the presidency which is called upon to furnish a field force can only with-draw establishment from the stations in which a departmental officer remains in charge, for, as a uniter of fact, the officers nominated to fill temporarily the places of those officers taken away from service are almo t entirely dependent upon the establishment, and it is considered consequently unadvisable to ampair the efficiency of the latter

C ptu : I l Hobdur Excent re grapus: 3ra.t Officer Kendule r

Owing to constant calls for reduction during the last ten years, the department has been seduced to the lowe t extremity and even beyond the bounds of efficiency and bring burely efficient in times of peace, it can scarcely be considered to meet the requirements of war. Unformed men have to be burnedly entertuned, and as but few come forward,

their quality is not of the bert. The pay of all writers and sall ordinates is already too low to entire, the class of men that are wanted, and to hope to improve matters without extra expense is unreasonable

The promotion amongst the subordinates is so slow, that men do not willingly lene their regiments to som the department and the best men likely to make efficient warrant officers aldom now your it at

To improve the efficiency of the department, it is first necessary to improve the string, and so get good men, who will work willings. To do this, a higher rate of pay should be given to the sergerate on fir t joining, and steps should be tal on to improve their promotion

As regude gometitas, each year produces a worse class of men. The speaking and unting of English are necessary for appointment as a gomestia, and men can generally find more herative employment elsewhere. Gamastias are often treated budly by officers in command, who look on them as any other Native, only to be abused, and on a company they are threatened with flogging and otherwise treated as bene th consideration. The consequence is, that few decent men, will accept the post, and it the commencement of a company, with active service before them, and when a number of new gomeshias are required, no trained man are forthcoming, and, with the exception of a few who hine relitions in the department and join in the lope of future employment, the greater numbers who come forward are the rit of different bazars. Nothing will improve this int an increase of salars, and stringent rules regarding the position of and iteratment of a gom shira more especially on active 9917109

G How can expansion in time of war be provided for?

Colonel J I W Bes Comm stary Ge tral He gal

See answer to question 5

Colonel R A Moore Acting Communistry General, Madras

Only by entertuning fresh hands new to the work and by purchasing and hing transport. The bried transport would consist of pack-bullocks and country carts. Neather camele, elephants, not makes are procurable in this presidency.

Lee tenn t Cole of M. W. Wil long) In Act g Commissiony Gen eral Bombas

(a) By providing for a periodical return to regimental duty of all commissioned officers employed in the commissional department This after a time, would give a certain number of officers serving regimentally, who would be acquianted with the working of the department, and whose services might be secured in time of 11.11

(b) By registering the names of regimental officers desirous of entering the commissariat depart ment, and who might gran a certain I nowledge of commissainst duties by stiending executive commissainst offices whilst screing with their regiments

(c) By detuling a certain number of men in each regiment as office clerks, bullers, and butchers Under this system each regiment would take the field independent of any extra estal habitent, would be complete in itself, would draw its supplies in bulk from the commissarial, ind would second for them. The men, too, being trumed soldiers, would be an assistance, not in menumbanic to the arms in the field

(d) A register of pensional clarks and subordinates should be kept in view to confloring them (if capable) for justformance of continuent datas on emergencies, thereby freeing for active service the

vounger men in present employ

(c) By improving the jay and the position of the Native majector, whereby men of the required cla swould be attracted to the since

(f) By true for nee of cher's (temporaris for contonment duties) from the offices of other

leg artments of Government-the public works department for instance

th 1 TH 411 r Depts Communicated the rel

The reply to this question has been included in the right to the list, and carlerence soluted to a pendices

E Williad Of sta

As at present, by withdrawing a large number of committee? offices and I my m and Native subordinates and a cuts from the various stations, the phece of the latter long filled up temporarities for a parallel In the late company to Bond it and Native long the latter long filled up temporarities. per threse had to be drawn on for officers This, however, orbi ritally provides for the requirements, and the eng mement of tempor re collaborate sport losing all other contributed to lorse extent, men obtained under these circum tances and one of the long frequently methods and untrastuerthy, necessing gradiits labors of the commercat ofhers with fill

Co l J K Dep y C w mm ary General L Carel l aga The communest at medis trained officers of all grides. Pres hands are metifical is seemed in a no set dan usedes. The necess I have recommended swould It was meet all ear rements in tome of pee on war In time of it ould still be more my took it accommended. I use to supprise places of offices of all grains an across on additional to the output of the more my took it accommendation.

C 1GS Valent Dpuy Com General Cm n ras ch go of th Khyk at 11 ram 1 es Only by increase of the department and extra expense

L n man C n I V Hun Deg to A an Communatory G B g Expension in time of war can it may on no only be provided for by etc to of the 1 nec estable uncents on more unple foot me instead of reducing, the minimum. Some processing sit hone or be made by means of a system of the tent 1 nd in price or e.g. in diagnatis on small is line to all by the chair guidable on offers with non common so cred officers tempor y in the 1 to common sor it executives grating this major ment list affil couract with its one major.

Nager M. A. Rowland on F amn C mm a 12 Accounts B wh y

I was a suggest that offices of the Ind va any order the real, of cap an should be put of top as an examu to an count sort offices at he a me manner if it ey nov ps n m t y lwe elements of tener to k at they should be at the def or stated proof to ence if the lage commissa sidel es for ut of on By thus me ta a rere we of ellowers it home Lan ledged crosses as at it are word be formed and becomes van libe for the assess tree of the regul. depart ment in time of the

V W Lo k D p by A m s C managementy Gener Unit ba in The present way s to withdraw permanent establishment and to complete by engaging extra estab all ment

complete by chifting for much actual is more. To do under the first part of the department for its runningenes is a my nable and the guardity of monthless as deals as the cume of a camp gen for all such and are all the complete of the com

Capa JPH yP nitre Commo sur Offi Kand in

To rap dly expend the agency of the department on an outbreak of wu s of course mpossible but pruch can be done by nasting that all toop going to the front all line we in them p = x frommers at agents σ chealing seg and governables assessing goines (as and largeres The os is tendency on be p to Φ 1, we to demand acts o

In eyes The s teaders on be p tof hat was belinned not service and to keep a borth n a station left or men temporal proagang gow in the through By and ing anny all permane timen a history gog plot defining the plots comments lead on by temporary mean a get me set to the departion. As done grand in discession measured to the contract the roots and are a labeled to be passed on time. The almost our my outbornt in the commensar at its love or so so I distince. If the nitrogeness of the service of the temporary means the service of the contract of the rescuritly and they cannot be for exit of the latest properties.

of the Control of the

 $^{\prime\prime}$ Is there any advantage in keeping a separate purveyor s establishment for host tals $^{\circ}$

Comil I The Cam

I come le the preorsagret mistal and so I belee do the midwaled set is a reached attention et one of preors is said if gre thy a the old of the legate mests a the old of the legate mests a the said at said at the consistency of the said of the said at the said of the said at the said of the said at the sa

Communicacy G or Midra he d per ed

Hosp 1_1 eye s are required for hospitals and could not well be due to the

Leu nant-Coen M. W. Wil 1 g b g Count seare G n m B mb y As the pure or a responsible for the washing mending & of the hop taken ing it a nece by that he should have the control of the servants have dealed to the edutes and who composite pure of a

Colonel J Keer Deputy Com m sear General, Lower Carele Be igal

The commissariat needs trained officers of all grades. Tresh hands are next to useless-cometimes worse than useless. The increase I have recommended would, I trust, meet all requirements in time of peace and wir In time of wir it would still be necessary to obtain some fresh hands to supply the places of officers of all grades on service, and thus is the only kind of expansion, in a limited degree, that I consider safe

Colosel G S Macbean Deputy Commissary General late in Com-missariat charge of the Elipher and huram Purces

Only by mercase of the department and extra expense

I et tenant-Colonel I V H mt, Deputy Ass stant Commissary Ge trul Bei gal

Expansion in time of war can, in my opinion only be provided for by retartion of the peace establishment on a more ample focusion of the prevention of the peace establishment on a more ample focus, nature of reducing it to a minimum. Some provision might, however, he made by means of a system of additional paid appearance cellus and agents on small salvines, and by attaching subvition officers and non-community. missioned officers tempor trily, in turn, to commissioned executives, granting them some small staff allowance while so employed

Mayor N. A. Rowlendson. Ex m. ser. Commissarint. Accounts Be ulas

I would suggest that officers of the Indum army under the rul, of captum should be required to pass an examination in commissariat duties in the same manner that they now pass in mulitary law, elements of tesies 80, 8c, and they showly be truched for a stated period to one of the lung communesariat officers for instruction. By this means a reserve of officers with some haveledge, of commissional others would be formed, and become available for the assistance of the regular department in time of war

Mager W. Lacklandt Departy Assert int Consumssary General Um

The present way is to withdraw permanent establishment and to complete by engaging extra establishment
fo obtain efficient men in the short time which is generally granted

to the department for its unangements is impossible, and the generality of men thus entisted are in the course of a campaign found useless, ty of men thus emission we in the course or a company nomin useries, and mente case schoolers, and effent powe more in mumbrane thru an assessment follow: The only way to remody matters in this respect is in my opposite to drift field exhibitablements to a larger either from staten establishments, and to fill up the vacences created in the Irlet heelity. The may to enable this being does not larger each them at present, I have pounted out in my reply to the previous question

Capita 2 P Robby Escatare
To rapidly cryind the agency of the department on an outbreak of were in of course impossible, but much can be done by insisting that all two-people going to the foot shall have with them personate commissional agency and to keep shall grow the containing everyouts, governing, assistant gomestres and pursupers. There is tendency on the part of Natives to shink active service and to keep a berth in a station, letting men temporarily engaged go with the troops

By sending away all permanent men with troops going forward and letting their places in contournents be taken by temporary men, a large mereas to the department is at once gained, and these men soon learn their work, and are available to be pushed on in turn. The value of an appointment in the commissariat is, however, so small, that men will throw it up rather than proceed on active service, and as they are only hired by the month's wages, there is no hold on them (accepting the confiscation

of their security), and they cannot be forced to return their appointments The increase of the warrant and non-communisation previous to war could be arruged by 20 or 30 non-commissioned efficies from regiments being placed at the dispersior the commission ground as soon, as war was determined on These men could be sent to the different Fuge dephis and would soon become efficient, provided that in the first instance they could read and write well and keep accounts and had passed a colloqual examination in Handustana. These men would not, however, come forward on the present into of staff par, to Rs 20 a month, as they are separated from then mess and have to keep up a sexiant and buy cooking utensils, &c

Is there any advantage in keeping a separate purveyor's establishment for hospitals 2

Colonel 7 I Wiles Comin s sary General E agail

I consider the purreyers a great mistake, and so, I believe, do the medical officers. As a rule, the old stewards were much preferred. The introduction of purveyors has added greatly to the worl of the department and their recounts are very lengthy and cumbersome. I should he glad to see them abolished

Colonel R A. Moore, Acting Commission General Madras

Hospital purveyors are required for hospitals, and could not well be dispensed with

L estenant Colonel M. W. Will longs by Act by Commissary Gen eral Bumbay

As the purveyor is responsible for the washing, mending, &c of the hospital clothing, it is necessary that he should have the control of the servants who are detailed to these duties, and who compose the purveyor's (936)

almost enturely dependent upon the establishment, and it is considered consequently unadviable to imp in the efficiency of the litter

Cept of I Holder, I we the esamat Officer K. Int. r.

Owing to e islant e dis for reduction luring the last ten years, the department has be a reduced to the lowest extremats, and es a become the bounds of themse and most of the constitution of persons of persons of the constitution of persons of the constitution of

class of men that are winted, indite hope to improve matters without extra expense is unrea small The promotion amongst the subordinal ems so show, that man do not a illingly lease their regiments

to join the dej utiment, and the best in a libely to make efficient wirrant officers seleton now join it it

To improve the efficiency of the deglutings t, it is first necessary to improve the status and so get good men, who will vail willingth. To do they, higher ric of pay should be given to the responsis on first pointing, and steps should be taken to improve their premotion.

As negardle generalities, each year produces a worse class of men. The exciting and uniting of Pechel we necessary for appointment as a gone littly and men can generally find in reduced couplorment checking. Good slift is relefted that tell ally by others an command, who look on them is any oil r A time only to be dyed, and on a comparanther rethreatment with logging and otherwise freeled as less the consideration. The crise panetris that few decent men will accept the post, and it the commencement of a compagn with a tree asset b for them, and when a number of post, and a the commitment of a compagn value times that it for nom, and when to mind an one of the state of the wide interesting and the restrictions in the department and some in the log of future completions the department and some in the log of future completions the protect numbers also come forward no the rit of different is vive. At thing will amy rose this but an increase of salars, and stru gent rules regarding the position of and tre facial of generality more especially on acuse

How can expansion in time of war be provided for

Cole el I I Walles Countre anny General Bergil

See mayer to question 5

Colonel F A. Moore Act ag Con massary ten crat, Madras

Only by entertuning fresh hands new to the work, and by purchasing and hiring transport. The little distribution would consist of pick bullocks and country outs. Norther camels, elephants, nor mules are procural le in this prosidency

Leutenn t-Cel nel M W Wil loughb A to g Comm sear; Ce eml Bon hay

(a) By providing for a periodical return to regimental duty of all commissioned officers employed in the commissioned department The select cities, would give a certain number of officers serior regimentally, who would be acquainted with the working of the department, and whose services might be secured in time of

(b) By registering the names of regimental officers de irons of entering the commissional department, and who might gam a certain I nowledge of commissariat duties by attending executive

commissarint offices whilst serving with their regiments (e) By detailing a certain number of men in each regiment as office clerks. bukers, and butcher Under this system each regiment would till a the field independent of any extra establishment, would be complete in itself, would draw its supplies in bulk from the commissarit and would recount for them. The men too, being truned sokhers, would be in issistance, not in incombrance to the arms in the fuld

(1) A register of pensioned cleal's and subordinates should be kept in view to employing them (if expable) for performance of cantonment duties on emergencies, thereby freeing for active service the

Jounger men in present employ.

(By unymoving the pry and the position of the Astire inspector, whereby men of the required class would be attracted to the service.

(f) By transference of clerks (temporarily for contonment duties) from the offices of other

departments of Government-the public worl's department for instance Color of I II Subley Deputy Communicacy General Biggal, The reply to this question has been included in the reply to the last and a reference solicited to appendices

Colon IM I Broader Offe at g Deputy Comm samy Cramal Upper

As at present, by withdrawing a large number of commissioned officers and Luropean and Native subordinates and agents from the values statems, the phees of the little being filled up temporarily at as a possible. In the late cumpings the Bombay and Madris pheesdenness lead to be drawn on for officers. This, however, out purtially provides for the requirements, and the engagement of temporary establishments as purchasing and other agents has to be resorted to to a large extent, men obtained under these circumstances and on short not ee being frequently inefficient and intrustworthy, mercesing greatly the labors of the commissionat officers in the field

Colonel J Keer Deputy Com nansary General Lover Circle Bengal The commissional nodes framed officers of all grades. First hands are next to useless—smoothness no so then useless. The more of I have recommended world, I trust, meet all the personnels in time of year and war. In time of user at a world still be necessary to obtain some fresh intude to supply the places of officers of largest on server, and thus set he only kind of expression, in a limited degree, that I considerate in

Colonel G S Macbean Deputy Commissary General late in Comnissariat clargo of the Klyher and Kurma Perces Only by merease of the department and extra expense

I sentennat Colonel J V Hunt, Dep to Asseta t Commussary Ge eral Be gal

Eventson in time of i've can, in my opinion, only be provided for by reduction of the peace establishment on a more ample feeding, instead of reducing it to a minimum. Some provision implif, however, be made by means of a system of "deltonial paid appention elects and agents on small solutes, and by attending substain, offices and non-commissioned effects are temporarily, in turn, to commissional executives, grantner them some small setf allowance while so employs the

Magor M & Rowlandson Fx am ner Commissariat Accounts Bombo I would suggest that offices of the Indian wany under the rule of evigan should be request to present accumentum a nonmiserant others in the same manns that they now pres in mintry law, elements of tactors, to, Se, P, and they should be atthested to a stated period to one of the large commission of one of the large commission of the commission of the reserve of officers with some honelogies of commission dataset sould be formed, and become a visible for the assistance of the regular department in meet a time of the comment in time of the comment in the other comments and the comments in the other comments and the comments in the other comments are considered to the comments and the comments are considered to the comments and the comments are considered to the comments and the comments are comments and the comments are considered to the comments and the comments are comments are comments.

Major W Lockhardt Deputy Assectant Comm stary General Um Isalia The present way is to withdraw permanent establishment and to complete by engaging extra establishment To obtain efficient men in the short time which is generally granted

To obtam eliment men in the short time which is generally granted to the department for its transpensients is unpossible, and the generality of men thus reluted are in the course of a campaign found uncless, and ne come cases subscored, and offers pruce more an incombinate time an ensurance to the commissions of the only way to remody matters in this respect in it my opnosite to that field establishments to large extent from attents est bishments, and to fill up the venuence created in the interte locally. The way to evalled this being done on lyings each than at present, I have pointed out in my ruly to the previous question.

Capta t J F Hoblay Preentice Commissariat Officer handshar

To rapodly expand the agency of the department on an outbreak of was is of occurs impossible, but much can be done by measting that all troops going to the frust will have with them permanent commissant ogents, se, victualing sengentis, geometries, assistant geometries, and part oper. There as a tendency on the part of Natures to shrunk vetroe

series and to keep a both in a station, letting men temporarily engaged go with the troop.

By sending away ill permanent men with troops going four wit and letting their places in cutomments be taken by temporary men, a large mense to the department as at ones goined, and these
men soo learn their work, and are variable to be peaked on in tim. The value of an appointment in
the commissions is, however, so small, that men will thour it up state then proceed on enter service,
and as they are only hard by the month's nuges, these is no hold on them (excepting the confinction
of their exempty, and they enumed to found to return their repositionation.

The mercies of the sament and non commenced grade reviews to mar entitled the transport of 50 or 50 non commissioned offices from regiments being placed at the disposal of the commissing general 50 won as nar was determined on. These men could be sent to the different tage depths, and would some become efficiently provided that, in the first instance, they could read and sent well and keep seconds and help seconds a colloqued cannitation. The limiter in These men would not, because, come forward on the present rate of stuff y y r e, 18 20 n month, as they are separated from their mess and have to keep up a separate of the cooking density.

7 Is there any advantage in keeping a separate purveyor's establishment for hospitals ?

Colorel V I Willes Commus and G noral Bengal

I consider the purveyers a great mustile, and so, I believe, do the mode of others. As a rick, the old sites and some much preferred. The introduction of purveyers has added greatly to the work, of the department and then accounts are very lengthy and combersome. I should be glad to see them; holybeldy.

Colonti R i Morre Act ng Couss stary General Madras

Hospital purveyors are required for hospitals, and could not well be dispensed with

Legionant Colonel M W Will long by Act of Comm conve Gen etal Bombay

As the purreyer is responsible for the washing, mending, &c, of the hospital clothing, it is necessary that he should have the control of the serious who are defailed to these duties, and who compose the purreyor's catally lim to I it is servants a collawed to marge in the gone 11 as, placetable insuch to void [a] of by here zero of decily in getting the coll of toff time. I am lower of part on the the prangue system of 10 y to me a section or of topic composite for the read. It is low replaced a better and none costly servant. I consider that is that changes in an ideal to indicated a spraying and that the deal leep the second is a direct them to the examinar and single two the value of the mediant is of lower limits of the collect of the median to follow the reads in the collect of the median office of the region of the cognitive to the value of the median of the cognitive to the value of the region of

Colonel T II Shiry Dep y Comm as y Genom B gal He ju reyors now pe form a may of the dates a lied devoted on the steen is formed by attended to loop tols. I consider that the jurney of such led to may be a state common serving contains a do old it entired to the containing one to did no general to a so I the response it for a spiles to the bospit less tell as for the mean no marker. In this command is not one can be a restart common containing the purposes are all sed as a restart common containing the marker.

Co onel M. J. Brander Offic at g. Deputy. Comm. s. y. G. n. l. Upper Circle Certa nl. This do ritness we coust test to obrits the lastication to set on the one join practice in the section of most of most property for at distinct and who is also no practice you and we below before go of longers! also so: The purary or a storm which has my cell much est work on the continuent at department has critected I below got began to you are you will be so you can be not properly to the property of the property

Colon J I er D puty Com n ss ry Ger n Lo er Circle Bengal

There me st be a provene sestall street or one to do the same worl. I that it is oull be as formely under the medical officer and not under the commission of our

Colo el G S Maelesh Dep y Coums sury Gen late a Coa ms anat charge of the K her and Kuman For esUnless it e medical deputment will tall o over the purveyor's duti s the useful and neces a y work done by the purveyo cannot be done cheaper and better

Colonel R. Q. Ma nvan " D paty Assasiant Comm saary G n eral Madrus

La utesant-Colone J V Hunt Dep by A s s a t Communarry Gen eral Rengal The hosp ful purveyor sof the greatest sea stance to a doctor (for tachlar) one as is attriced from home) an annum ways which percent practice cable confinement table, note of a full and accounts.

I do not think that the priveyor system has my deviniting over 10 of the percent of the perce

Major M A Rowlandson Fx muce of Communicatiat Accounts Bombay regeneral spent a wild have on sensinat fo hosp tel weak.

If the even on separate pureper's establishment, the dates per formed by that class of sevents both on the march on mentosmate would le a to be per formed either both on the formed on the commensure the majored without on the through a blood durates of hytheocommensure throughout the through the objection to the melanel subb durates so ho one as they up fully engaged in it a discharge of the spend duties both professioned and ep tol and alway no time to de often to be over of the name on set one of cledit up belief and tables of de two me & & when belongs of the hosp tall. The commensurate aspector has to use a stoom and dates after olden angular same for mits contracted a conjugate for the tell use of a jut is on that is not considered from the majore of the tell conjugate the stoom of more the contracted or only pure less. He list a less to currage for the tell use of a jut is on that is not march and a responsible for all comp continger one such as a pily of start we do 1 & & & and he thus stoo fully tall en up to allow of his undertaking the purespor's city.

Majo W La Marct, Dep ty A s stant Co mus u y General Umbs le

Yes I believes of Pregists are breedly responsible to commiss that a office s to the care and custody of the stoles entrasted to them. They are in frost subord outes of the department which it outer its who were formely emilloid, were not

Cap a n J F Hole v Fs ut ve Commissa nat Office Landalar

and fithey were done in youth some one discould live to do the woll such as n logical stewart

Yes -The pureyo and his esta lishment are constantly at work

8. What are the quantities of reserve stock maintained by the commissuration of why $^{\circ}$

Colon I I I Wiles Courts stary Gen rai B ngal

P me pully only tea. English beer 1mm liml ets and lesp tal dolfm g av le pt. Tee only the omnoid is laglish beer as menths un one year blani ets v d lespital clothing—il e former for extrusives and the latter on fixel percent go. Beserves of supplies from In rope or those not readily obtannible are necessary to meet van findure of

estimate and owing to the great extent of country over which the distribution occurs rum is kept in reserve to age, as fresh rum is objected to by medical authorities

Colonel R. A Moore Acting Commissity General Modras

The reserves I opt up are principally of such articles as are procured from Pagiand A reserve is required to prevent our running short, and to allow time for distribution to outposts

Malt liquor -A three months reserve in India, six months' in Burma Rang -- Eighteen months' stock. New spirit is unwholesome, and

this reserve should be increased, not diminished

Tex - Il ree months reserve in India, six months' in Burma

Sali meat -Three months' stock

Preserved pointoes — One year for troops in Burma Hospital clotts g — One year's stock

Carbolic acid -10 770 lbs on an order of Government, dated 1st April 1874 and G O dated 4th November 1872 McDorgall's dissifacting powler -82 000 lbs , G O dated 1st April

1874 and G O dyied 4th November 1872

Porter in wood

Beer in bottles

Warm clothing 3,000 blankets.

6 000 flannel banians, 6 000 flannel drywers 3 000 purs shoes on a special order of Government dated 22nd August 1878 owing to there be ng no stock of a um clothing in store when required for troops proceeding on service to Malta

Locutement Colonel M. W W 1 longl by Act ng Commissary Gen eral Bembay

Obtained from England through Secretary of State Six months' reserve plus the quan-Bundy French tities required for a year's con-Post wine Post wine Sherry wine sumption Порв Lesence of beef (No reserve, the quantity for a Salt meet year's consumption is obtained Carbolie acid in instalments Blankets }2 000 Bedding

Six months, plus the quantity required for a years consumption A small reserve of provision articles for E inspera and Nature troops and public followers is stored in the fortiess at Asirgail as a precent

tionary measure

Ram

The articles obtained from Pagland through the Semetary of State are drawn on indent, which includes a reserve of six months stock, with exception of salt ment call olio acid, and blankets but as the indents his complied with by instalments, the six months reserve is not always in hand. This reserve was fixed to meet emergencies, or loss of supplies in transit by sea

As regards rum which is a local supply, the six months' reserve is to meet the contingency of the contract breaking down

Colonel T H Sabley Deputy Commussary General Bengal.

Reserve stock of certain articles only is lept up where these articles are not readily procurable on the spot such as tea, rum sugar hospital necessaries and other reserve stock is kept up at frontier posts where there is a prospect of their being out off temporarily for their supplies The quantity of reserve stock is not in my opinion excessive, and at certain frontier stations I recommend the provision of a larger supply of all articles req : ed for equipment of troops. The harty collection of interior articles is a most expensive mode of meeting a want, and mpairs the 'efficiency of the arrangements for putting an aim; in the field

Colonel M. J. Brander Offic at an Deputy Commusary General Upper Corele

As follows -

Reterio of stock articles Lept by Commissarrat

l year Duanfectuats .. 6 months Cooking utensils 5 sets Malt liquer 6 months Tea 1 menth Hospital clothing 20 & 80 pr ct

MAR S O

For use in the stables of Br tish cavalry and artillery either during an outbreak of epidemic sickness or when there are good grounds for anticipating such an attack

Wines and epirits for regin e tal hospitals

No regular reserve is maintained but in the Commissary General's circular No. 50 of 18.7 at is ordered that when supplies are obtained from Calcutta, 'a three months' stock should be indented for at a time

Provis one a d catile is police Fort G calcor

Wheat	mds 652 207
Race	lbs 2 240 0
Salt	, 560 0 Reserve at present maintained
Pirewood	80 960 0 \aga nst times of p blic danger
Ghee	mds 70 and disturbance
Dhall	, 740
Gram for bullecks	" 180 0 J

It has been proposed by His Excellency the Communder in Chief to increase the reserve stock to an extent sufficient to meet the requirements of troops 200 Native soldiers follo vers &c of the strength noted in the margin for a period of three months. The executive officer at 600 Pollowers women children. 60 Bul seks, Gwahor estimates the mereased reserve as follows -

**** .	Mds S C		Mds B C
Wheat	2 546 28 3	Dhall	255 87 8
	Ibs ez		lbs oz
R ce	17 062 8	Sugar	10 664 1
Salt	63,4 0	Tea	3 046 14
Tirewood	204 750 0		Mds S C
	Mds S C	Gram for bullocks	273 0 0
Ghee	85 12 8		

The stock is periodically used and replaced to obviate deterioration

Proves our Dell's Fort

Rice Salt Firewood	3 765 0 2 071 2 4o 180 0	Wheat Dhall moong Ghee	927 131 50	15	0	
DOGWSHI	40 TOD B) times	20	22	٥	

Coffee

In the Commissary General's annual estimate provis on is made for a reserve equal to two months consumption but no reserve stock is actually maintained

Loutenant Colonel J V Hunt, Deputy Assistant Gream stary General Bengal, Reserve stock -Rum 12 months consumption and 12 months reserve of rum
Tea 2 and 1 months reserve of tea

S gur-six months Breadstuft-ditto Slughter stock-one month's

Rice Rice Potatoes Salt

Salt)
Barrack petty supplies One month s

Tuel-three months Hospital clotd ug and blankets-20 to 30 per cent Sucl reserves are munitumed to guard against failure of supply

M jor M A Roulindson P am ner of Commis small Accounts Bombay A statement is attached showing the quantities of reserve stock maintained. It would be seen that the only esserves kept up in this presidency are of such articles as are obtained from England of which six months supply is lept to provide for any sudden emergency or for the temporary interruption of communications. Three months' provi ion for the garison is kept in reserve at Asirgarh as it is an

isolated fort and in ght he cut off from communicat on

of bands from the permenent establishments and by entertainment of new men. On the coession of the Alghue entroping, the Government of Bomby Reich the extra pay to deal at lifty per cent. of their salstantine pay (Government Resolution No 5076, dated 25th Novembe 1378), and reported to Government of Link: and their sis in according with the rate of lastic allowed in Bergyl to gownships, and in Bengyl and Bombyte purragions on command, e.g. on othersy service any from them station, and appears to be the lowest extra remuneration that should be allowed.

Colonel T H Sbley Deputy Communicating General Bengal.

The species and others in this comprage have only received the same messess give a size in, sould receive when gauge on an ordinary murch in Lubr, and cleaf a sering in Mghanastan in the urmy we placed on the same footing as deeds moved if some cliciath to Windlah. I conceive the circles accompanying in army on service should receive greater remuner about than these serving questly in enforcement. The desertion and insegration of many subsolutions powers that extra inducements must be held out for must no clear of a servine.

Colonel M J Brander Offic stug Beputy Comm stary General Upper Circle

Commissaria submissates, Dampens and Nature recent un more pay when as across how the accompaning troops making the quarter than the policy and the accompaning to eather the many fines are at earny of everuse, except that all dells, squate, and other establishments when as surve get five natures extr. The additional mechang pay is given to caable subordunates, delis & R., to much the additional expession carried in their got provide themselve with matching equipments and to maintain a second establishment for file in families, but on an eddem value to accompany them their proper long originally fixed as suit-this for the performance of their distances.

Colonel J Keer Deputy Com missary General Lower Circle Bengal Even with the 50 per cent exter pay allowed deels it is most difficult to get Native elerks to get a serves. They and other subordinates, if married, are paid to extra expesse while on service, having to maintain to estibilishments. I due to think recommy can be effected in that seeds outdoor better than the service without the independent of pay. Warrant and non commissioned officers receive but very little extra whilst on service.

Colosel G S Muchenn Deputy Come seary General late in On a uservate clearge of the ki yber and huram Fortes Colosel G J Delrymyle-Hay Ex are or of Co unusumat Accounts Be gal.

Custom, necessity, and justice

Colonel R. Q. Ma name ng Depaty Assistant Com issar; General, Madras

L cutemant Colonel J. V. H. int

Please see paragraph 30, section xxiv, page 240 of the Pry Code of 1849

The clerks, &c., are put to an expense by separation from their fami

Dop to Ass stant Commissary Gen eral Brogal

hes, which cleaks in statisticary offices never most.

Patra pay to commissional subordinates, cleaks &c., proceeding on service is given on the ground of their being put to sensus extra expectes. They are notificently and mon, and on services they have to monatom their framines separately.

Major M A Rowlandson Et amour of Commissariat Accounts Boulday The majority of such men we merred and have families. Their pay in odinary times is sufficient for the support of all then households I ult when required to go on savere they have to leve their families belond, hinch entials the learning up of two establishments, and in addition to this field service demands an extra expenditure on account of field lat, &c. &c.

Major W Lucklarit Deput Assistant Commissing General Umballa Commissionals, returnal and non-commissional officers geometries and speak each on more metrors them container processing, see clearly contained the fit they need extractly from these own distance for engage of corrections, for The resear for groung these true liberance to first when they my of these subcolumbes was fixed, it was not considered sufficient to ever extra express various to ensumed by muchos & &, and which necessities a separation from their fumilies, and consequently keeping up to establishment.

Capta n J. P. Hobday Posentine Commissarint Officer Anidalian The men we generally Bengules and Hindus. They have a great dealth to status service or any land of roughing at and many of them would recapt rathes then go on their or others; yet. Those selected to go whether on merewed pay or not, would prefer to remain where they are Ast it as understood though that all Native establishments, such as doods beneate, Lee get extra yet on command, it is supposed the system has also been applied to office clerts.

States ert storing the reverest of storis lept up by the Commissional Department, Bon bay presudence

dames of art clo		Quan i es de ted for year1550-	the	ttes of o snaption one ver	for	Quant t er reserve y v led fo	~o-	Rewale
Porter	bhds	14 520	0	13,581	0	6,765	26	Summents reserve e de G B ha Soll, dated 21st July 1873
Pale ale in quarts Ditto in pints	doz	750 720	0	1 258 2,259	Ð	026 1,114	6	Six months to cree Dito
Port wine	,,	182	0	401		232	5	D tto
Hops	Pos	500	0	498		249 110	8	Ditte
Burners	N_0	330	0	210				D tto
Chumnejs	"	16,3,0	0	10,881	U	5,142	0	Dito in addition to 15 per eri more peo ided for to meet excess breakage charge-ide to troops
Wiel's		39 900	0	72 528	0	36 261	0	Sin norths reserve
Carbolic acid	lbs	1,011	Ó	2,130	0	5,125	0	Lp less creerre r drG R Acs 160 an "160 of 14th Japaners and 16th June 18 and No ""Go dated 2 d July 18 o
Blankets, brown, Eu	rope, No	16,831	0	15,260	0	2,000	0	Re erre r de G. R. No dSOI dated 6th No ve abor 18 ⁻¹⁰ in add to to the reserved coll restler to the cate t of 161 there a product for tide G. G. N. 172 of 1872
Bisenits	lbs					22 000	0	Lent up for Bomby Marian
Diall tour		١.				1,845		h · ·
Rice	"	1 .		ĺ		20,702		[]
Wheat	33	1		1		32 598		
Glace	1)			(2,127		No 1842 dated 10th Armi 1848
Sult	23	1		[1 223		11
Wood .	,,	1		1		88,020	0	Ų

Major W Indbank D paty as stant Commissary General Assistant Umballa

Ti e only place in which a reserve stock of supplies is I opt up to any extent in the Bombay presidency is so far as my knowledge goes, Adea, where, for political reasons, it has been considered advisable

It is true that in all godowns to ilt liquor and jum is lept in larger

nantities than are required for immediate consumption, but this can hardly be called a stock reserve succests simply for the reason that the cold weather is the season in which the least wastige is hilely to occur in transit that the year's supply is made to the different stations at this time of the year

9 What are the grounds for giving Commissairst subordinates, clerks, &c , extra pay on proceeding on service?

Cornel J J W Her Commus. 7 Ge nilk mi

The expense arising therefrom Commissariat clerks are constantly on detailed duty are, is a rule worse paid than in most other depirt ments of the Government service line harder and more responsible work. All clerl's of Government offices at as believed get extra pay on leaving the presidency to cover the radditional expenses

C e el P A Moore let g Com mats re Gen ~1 M lims

They have to provide thems has with marching but, and have to make provision for their families left behind

I thra pay is given to commission talled a and subordinates to

1 - cont Color 1 ! W W 1 1 il Ac g C mu ary Gcm gral B mlar

meet-(a) the increased expenditure consequent on their leaving their

(a) the indicated expendence consequence on many recomposition from the chiral well it they are on service,

(f) to recomp them for the interved responsibility, labor, and land inputies in most eness incir on service.

In this presidence butherto there has been no fixed code of extra PF to commi and clerks and subordinates. Lormerly a hen occasions of fills the earse, the Columns my General, and with orders of Government fixed the rates of put to be allowed to the external clerks of I rubordinates, and such a ablishments were made up parily by transfer

of hands from the personnent establishments and by exteriamment of new men. On the consonn of the Afghan ammang, the Germement of Boubby find the extra pry to client's a Hity ray cont of their milstrative pay (Government Revolution No 50%, detail 25th November 1878), and reported to Government of Juda, and this is an accordance with the rate of batta allowed in Bengal to gomeshins, and in Bengal and Bombay to purveyous on command, et., on onchuny service ways from them station, and appears to be the lowest extra renumeration that should be allowed.

Colonel 7 H Shley Deput; Commission General Bengal

The speaks and others in this exampage level only necessed her was increased part with the paroll necesses when going on modulury moved in Judia and cleaks serving in Afghrunstan in the army two phased on the same feating as celes in more if most cleaks in Ordensia II concesses the cleak a recompanying an interpretability of the control of the cleaks are companying an interpretability in earthornest. The desertion and restriction of many subsolutions proves that extra industrients must be held out for men ordered on service.

Colonel VI I Brunder Officiating Depity Commissary General, Upper Circle

Commercial subsequents, Danquen and Netter scenars no more pay when on severe than they do when encompaning through much pay when one severe than they do when encompaning through much pay and the crabblehenests when one saw see give for extoner ofta. The additional maching pays given to earlier subsequently, given by the particular clayers meancing in laying to provide timeseties with meching equipment, and to mention is second establishment for their framework who are solden while to economyst them, their pay proper being engought faced as soutable for the performance of their distances when statement of these distances are the second extension of the content of the cont

Colonel I Feer Deputy Com m seary General Laver Carele Bengal Dren with the 50 pin cent cutra pay allowed deeler, it is most difficut to get Mixer celer to go on so were. They and other suchcuries, if mut sed, we put to cutra expense while on service, having to mutation to certifications. I den't think common can be effected in the sent of softly. Exhibitoments samply would not go on service without the inducement of pay. We usual not go on service without the inducement of pay. We usual not go one survive without the very hittle cutra whilst on service.

Colonel G S Vanheam Deputy Com mestars Ge urral late in Co-a m sastrat clurge of the Khyl er and harum Forces Colonel G J Dalrympho-Hay Ex a nuter of Com mesarrat Accounts Re gal

Custom necessity, and justice

Colonel R Q Manawar ng Deputy Ass stant Communes ny General, Madras Please see paragraph 30, section xxxv, page 240 of the Pay Code of 1849

The cierks, &c., are put to an expense by separation from their farm-

Leontenant-Colonel J \ Hunt Dep by Ass start Commissary Gon eral Dengal hes, which cleaks in stationary office's novel most.

Extra pay to commisserate subordundes, clerf s, &c. proceeding on service is given on the ground of their being put to smoots extra expecse. They are indictatedly paid men, and on service they have to maintain their franches separated.

Major M A Rowlandson Ex ami or of Commissionat Accounts Bombsy The myority of such men me neversed and have families. Their psy m ordinry times as sufficient for the support of all their bouseholds, but when required to go on servere they have to leve to be remained, ninch enfolds the Leeping up of two estyllishments, and, in addition to this, field source demands an extra expenditure on account of field lat, &. &r.

Major W Lucklurdt Deputy for stant Commissary General Umballa. Commencement vermit and non-commissioned officers: genualities, and agents get non-con-extract time on enthrone more master for related properties of the most near the results are clearly are detailed from their own attents for cumps of concretors, & If a toward for grant gitts extra allowance is thin A interface of these misocianties was fixed, it was not considered sufficient to cover extra-cupress which we necessified by mixing the first and the control of the con

Captain J. P. Hol law. Exer time Commission at Officer. An idal ar The men we generally Bengths and Hindus They have a great dishie to extine service or this kind of rengine grit, and immy of them would seep not including you then ordinary you? These effected to go, whether on mesered pays or not would patel to seman when they are Ast it as understood thing that all hatter establishments, such as doods-heness, &c. get extra you as our said, it is supposed the system has also been applied to define clarks. The pay of clark in the public works, pay, and other departments to be ter than in the commissation, and the department is therefore not much sought after

10 What economies are possible in the purchase and repair of barrack bedding, lighting of barracks, punkha-pulling, &c ?

Colone) J. L. Willer, Commo rep General Dengal

Colonel R & Moore Acting Contractory General, Madras Burnel hedding is not repaired, and is procured at a moderate cost. The blunket now issued is inferior to what was formuly issued, and costs less

costs fees

The high is formerly used in burnel's were merely might lamps, no giving suffice and light to read by Kerosine lumps no now beam introduced, and be rivel's to being properly highled from 6 to 10 rm.

The transport of the lamb appropriate parties of the lamb appropriate property for the property of the lamb appropriate parties of the lam

introduces, and this I ind necessfully cause extra expense.

The cost of puul hy-pulling and watering tatties is reported or pearly by standing burnels committee, and their recommendations have

not generally been complied with

Government has usually groun a lump sum, considerably under the asl of for, and said it in set suftee Leanounce can only be effected by those who are on the spot an knew the requirements of each building

Lenterent Colorel W. Will loughly Acting Commissiony General Bombay

Euruck bedding consists of—
Eughsh blankets Obtuned from Eughan't through Secretary of State

Cotion sheets
Cotion satisfungers
Cotion satisfungers

Cotion satisfungers

Cotion sheets

Continuation

Inthest

Mark

Obtained by commissional department by loss constructs in the present rates (Hithesto obtained from Ingland by Courter Moder General through Secretary of Sinte now obtuned by commission department by local contract of the

Pillon eases

Leather strap with Ordering supply

Lighting barraels

The other exempts of the lumps, re, I indeen and off in highing ne oblivation by loc lent thet the lumers and elumings, and was, fewer largeted through the Secretary of Stele Action is non-being talen, with a vas 's coort on wheth r bland tels, hum is a dunstry and wal's (and many other articles) could be oblived levellily to contract a cherght 's or churper than, the home say ply. Beyon that I see no nom for economy, is for a commerciant is concerned.

(The commerciant day thrent samples doubt a commerciant day thrent samples doubt.)

Pankha-pulling

here when would is others to controll an entered into for punkl's cookes. Unlesome nuclement continuous for pulling junkles is invented and introduced, I see in resonant of seminors in the stem. Colonel J Keer Deputy Com mussary General Lower Circle Bengal

I can think of none We only supply these articles. It is for regimental authorities to answer this question

Celemel G S Machena Deputy Commissary General late a Comm start of erge of the Llyber and Kurara Forces

On the existing orders none Patterns of bed high numbers of lumps and punkhas being fixed for the commissional deputament to supply the supply is made in the chargest manner possible

Colonel G J Dalrympie Hay Dzam ner of Comm search Accounts Bengal

This off to can suggest no constnues under these heris, but it from not in my appears to be desirable to secretar at lether it in darket 2th 'womber not predictable to reduce the present sects of 15 fe between 15 fe to detail it was a cult for letting branchs and hospital. The count of harvel, bedding supplied to a solden under the old and now scales is them.

Colonel R. Q. Manustring Departy Ase tank Commissary General Madras

Mayor M. A. Romlandson Fx. supplied during exceptionally cold weather.

The I has khus fatites in barracle are practically useless as they use not watered except when an offices in by and the men frequently move them during the day and head holes in them.

am ner of Comm startat Accounts
Bombay

Major W Leckhardt Depaty
Assistant Comm seary General
Umballs

This information may be more satisfactorily grand from executive officers, departmental and regimental, as they have practical experience of the requirements of the troops: A saving his ritely been made by the introduction of Leresune oil and new savies of lights

I see no way in which if a expanse meured can be reduced in the instruces quotion in the question.

I wan however of spinner their reductions we feasible in the case of heapiths and applies made to them. Instead of the present spinner argumental benefind I would suggest a sixtion hospital for Suppless and the total suggest a sixtion hospital for Suppless and the total suggest a sixtion hospital for Suppless and under the Nitwes to be established. I that matter of suppless I am of spinner that the sixtle fixed by Commercing Grant Ne arready supplementation by Supplemental Supplemental Supplemental Supplemental Supplemental Supplements and the Supplemental Suppl

I flude more partie thuly to the complete set of clothing therein ducated

Capta n J F Habday Evecutive Commissionst Officer Handshar to be hepf up for females and children

From year to year for the last ten years every possibility of
referenhenci to economy has been no gift out and adopted. Committees
have been held it such statem with a v or to recommending and slepting up plants to ensure economy. It is binned that the prochase of
bedding has thus you been made in Lindre which will effect a saving,
but to traffer role on exposure of leghting and put his putting a simper
sible unless by doing sowy with ponklan, except in hospitule, or the
investion of a machine to pull them.

11. What is the actual price of the various articles of the soldier's ration by "contract" and by "agency" f

Colonel J L Willes Commuspary General Bengal I don't understand the question In probably every station some portion of the ration is simplified by contract, some by agency—in no two corresponding It is therefore impossible to give the information required

Colonel R. A Metre Acting Commissary General Madras The cost of ration articles at the several stations is shown in the annexed statement D

Supplies curnot be made both by contact and agency at the same time and piece. The two methods of supply cannot, therefore, be accurately compared.

(917)

ration by contract and by agency in the Madras presidency for 1878 79

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dire everpt Magin

R A MOORE, Colonel, Actu g Commissory-General a 3.5

Colonel T H Sley D puty Commissivy General Bong I

The Commusery General will reply to this question but I am confident the s pply of meat and bre d by age or is economical and is most satisfactory in the interests of the sol her although the extra work, thus entailed on executive office s in effecting these supply s by agency is very great and is a

duty of vivil they would gladly be relevel

Statene is son ng cost of rations a pp el to troops at the dreto el stato sa the Upper Crele

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We neithe g en man ti sy en mas in t known

M J BRANDER Colo el Offg Dany Con ; Ge l Upger C ele Be gal

Co onel 7 Keer Deputy Com m seary Gene a Lo er Circle Bengal

Thep ces vary eve y n onth at eve y stat on There a e no faed tates for brend and beef. These depend upon cost of wheat and cattle & But I g ve belo v til e price of a sold er's ration at 1 ort Will am for June 1879 -

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                   6 11 0
1 4 salt at
30 0 potrtoes at
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                   4 18 9
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/ 11 o suga
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                                               0 10 7
1 5, teac
              at
                   0 12 0
                                               1 0 0
                           Total
                                               9 14 0
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19 lbs

* The forms in rhed care supplied by contract Colonel G J Da rymple Hay sam ner of Comm sea at Ac-The contract ates for the supply of tea and sight in 1878 79 were Exam ner of

as follows -Rs A P counts Beagal Del vered at Calcutta 0 8 0 0 8 6 at Mee t per lb 0 9 at Ran klet 3 At all stations from Calcutta to Hier migh 0 2 8 gar tt all stations from Benares

uj wa ds The other art cles which form a soldier s rat on are-

Salt Bread Meat Potatoes or other vegetables

Rec or an equal q antity of flour 1 rea cod Brend and meat we supplied by a ency the average gency rates per hunded like in 1878 9

throughout the presidency ere-R A P 6 1 41 Beil 7 m Bef 1, 10 1 M tton

These neages are speall sinel foreport nathe frame here exotile department The other a tacked are a pplied by contractioning of a play be deeded but the Commissions of the all. The rates which vary at the different stations are not compiled in the large very ges strick

as a the case of bread and ment Co on R Q M n ng Deputy A to t Commussay Gen rol Madros Contain e IS J-50 offered for Agency Breal 103 lbs per rupce lbs per mage Beef la G1 Retsampld "- ner up Mutton S "I lls per upec Rs 0 4 per l Rec Coff e Sugar C. Is 1c rupe Potntoes None Circy vegetables fo His 1 6 000 noa lle

Salt

12 Do you see any reason why the commissariat officer in a division or district should not come more directly under the orders of the general officer?

Colonel J I Willes Commissary-General, Bongal In all metters of describes, consumerant officers we se derectly under the orders of communities officers as any others. If my opmos is as el as to whether we should all prefet to be under the orders of the former, though I in me tare there are difficulties and objections to such an arrangement. Lastly, if my varies as to economy in working the department is wranted, I to said say appoint a commission to enque the department is wranted, I to said say appoint a commission to enque into its whole nothing, melating seconds as tendered and subtref, it is in the examiner's office and so much of the controller as a pertain to the commissions, and left it be considered whether the present camberial of accounts and such cause for subtreely possibly no increve to them officers with the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the department of the control of the control of the control of the control of the department of the control of the control of the department of the control of the control of the control of the control of the department of the control of the control of the control of the control of the control of the control of the control of the department of the control of th

Colonel R A Moore, Acting Commissary General Madria The general officer ought not to interfere with the duties of commission officers to public accountants, but in other respects they are under the general officer

L cetenant-Colonel M W Will log by Acting Commissiony Gen eral, Bombay

The commission of the division or district is directly under the orders of the general or communing office, and his position as a member of the staff has been littly defined by Government of India letter No 941, dated 19th February 1877

This condition should be fully and unsecredly reorganed. Under the strine of the department and the unitary span of the officers will be maintained. Commissional officers have to refer natives of departmental chest for the orders of the Commission of General, but this should not and need not, interfere an any vary with their othey and relation to the geneal officer, from when the commissionart officer should recove has orders dreet, and not through the medium of undher staff officer.

Colonel T H Stday Deputy Communicary General Bengal.

I consider at most describto for the interests of the service that the commissant officer should be regreded as wint officer of the general, and this has relations with the general should be of the most intuition and confidential nature. The general officer ensembering that while he has to within over the interests of the solder. In must not fingest the first of the solder in the same of the formation and the first the formation are soldered by the formation of solder on more him but of the solder.

Colonel M. J. Brander: Officialing Deputy Comm scary General Upper Circle, Bengal. The functions of commissions where, cheeling consisting in bourg disbusers of the public money for the purches of supplies and him of carrings for the ming, it follows that their action usual to restricted by the rules of Government under the shock heads, and thirt, unless general officers or turned of with disactionary pour rs to the expendance which they do not now possess, I do not see how the officers of the commissions in this showe expensity can come more directly under the content of the commissions in the shore to expensity can be under a disaction of the commissions of the commissions of the same tanas, I log to offer my opinion, that it would be greatly to the personal chaustrge of the oliters of the commissions department if they could be phosed more disactly under the orders of the mendous fairs, than they we at present, for these there undell probability to the their presents of their venture and the officers of the state more and probability to the their presents of their venture in the feld, accessively of an important nature, being recognized out liy with other members of the state.

Colonel J Keer Deputy Commusery General Lower Circle, Bergul

Commencent efficers we bound to obey all orders of the general commen ling the draw or or datuted. I think it will be monous-ensent and likely to estand noth if they are under more mesters than draws and There we're species of the more than the less that I could streetly videout their present portion being fell or at its expectily as I cannot occur in what way the service will be benefited by a change such as the one suggested.

Colonel R Q. Mannarang, Departy Ass stant Comm asary Gentral, Madras

By the Madris Commission Code, Section I, parigraph 10 commission officers in change of divisions and attoins are subject to the orders of the govern or other officer communities on the matters that are not of a partly departmental nature? Anything more than this would tune as much fraction in work as the interference of a man in his domestic benched officers.

Legiterent Colonel J V Hant, Deputy As strut Comm s.ary General De gal.

I do not see how the executive commonstrate officers of a driving or distinct can come more directly under the orders of the general officer unless the entire constitution of the department is altered, and it coases to be a civil department of the army

Louten at-Colonel M W W! loughby A in Commissary Gen era Bombay

Nahyo name English eou valent Bl stre Water earr er Bh indares A cook on vessels Begaree Labour Coolie Plephant attendant Cho vkidar Watchman Dhob e Washerman Dhanger Touzdai Shepherd Head of elephant drivers Hayıldar Chief of peons. Hammal Porter Hullal Cattle slaughterers Jemadar Cl ef of elephant drivers Seamen Lasca s Muccadum head O erseel over 100 Government cattle and JO atten lants. Oversee, over 05 Government eattle Muccadum, second and 1° attendants Muccadum Overseer of elephants Mahout Elephant d ver Mocheo Leather we ker Mallee Gurdener Driver of bullocks at a draw well. Mote valla Maistry baker Head baker Moolla Sleep slaughterer Nail Herd peon or office messengers Nalbund Tarner. Nowgunnes Labo ters carrying heavy loads by pole and slings Watchman

Colonel T H S bley Deputy Commes any General, Bengal

Pugg e Ramos s

Shroff

Topis

burwin

Tupalwalla

Personnel

Mutsuddy

Fourdar

Mahanat

Ca rardy

I have no menorandum by me showing the constitution of the English commissionate but I believe all the dates performed by our Natives gomethias or agents are conducted by subordunate com-missional officers or clerks in the English commissional

Watchmen

Ca nel draver

Casl er

Sveeper

Postman

Colonel M J Brander Offic at ing Deputy Commissivy General Upper Circle Bengal To adopt English synonyms for the pr sent Hindustan words in use would it s cans to me obtain no advantage maximuch as in addressing Native subordantes, the latter would his e to be adhered to

from their general gue ance of Linglish
I will however give a list of some that occur to me

Native name	English eq ivalent
Jounashta Pulladar Pulpadar Pulpadar Punyassa or pson Duftry Chowdry (cast) Gendar (slep) ant) Mahout Sun un Bhistic Puckuli Puck ul Doolic Danndar	Agent ordner ly used We gimm ditte Westinger Record Recype Agent to contrador forcarts Diphant-Looper Camel to Water on er Water likedam Water

English terms are us ally employed to describe the various kinds of work of the comm ssar at department

Colonel R. Q. Ma nwar ng Deputy Les tant Comm ssary G nord Madras

Anz ce

Cattle catable at e t

Agent and accountant, Elepha t establ sl e t

> Superntendent D'na Forege-cutter &c

Camel establish e t Dubashy Overseer Surmun Dr ver M le estall sle t Herd muccadum S spermlendent Second muceadum O erseer Muleteer Drver Chuckler Collar maker Bi llock establ shment Damgah S perintendent Clothy Head overseer Duffrdar Overseer Driver D tto Bearers' establishn ent Head maistry Super ntendent Petty mastry l oreman Bearer Porter and general laborer

Lacatemant Colonel J V Hunt I have used only English names in this report. But I subject a Deputy Assessed Commusery Gueral Beneral list of such ferms -

Retablishment.

Munshi Nat ve writer and translator Di ftry Office attendant Peon or chaprasi Messenger Chould r Wat hman Gomashta Nat e agent Headman Sirdar Tindal Hea lman of lascars Coolie Porter Mutsuddy An assistant Native writer Ma stry Master of any cruft A cobbler or shoemaker my worl er n lentl er Mochec Jemadar The her in an of mule or elej hant attendants Nath jemadar Assistant I erdman Mahout Elephant driver Syce Chowdry Groom A headman Nub-cl owdry Ass stant beadman M serldar Native record keeper Manager of a latch of camels or cattle Camel dri er ThoLedar Surwan Cl. agundan A more se tim charge of stores from one phase to emother A grass-cutter who s u plies grass to to horses Jorawall h grass cutter Salootr e I me

C mel 1 Icr

nn l dóolies

la len at citl er end

A caste of Hindus employed principally for carrying pall es

Banghyi urdar or banghywalla

Sleoter sowar

Kahar

A Nat e porter who carries loads on his shoulder by a pold Goorga He pital scullion Dhobie Washerman Bl stre Water carner B ldar A d gger Nata e sa lor or tent patcher Ligar Kotwal Mayor of a to n or city Gwalla Co l'erd Moolla Mal omedan priest A ea k porter Peepawalla Anti nd Horse sloer

An extra allowance of pay Batta Art cles Granulated flour Score Cl nam L me Namsook A deser ption of cotton cloth G mla An eartlen bas n Julias A water jar A larger earti en I as n Na nls Scort e Juille utergilet Glol ular v fer ve el of earthenware Gl urra A small earthen pot Bras 111 111 n Hanh Cl | mehee Doo ool Ad cript o of cotton clot1 n lved Alaro a inl מו לרורל לל Afnekulofco trectio cloti Amaticorep ermaricut M A m xt re of sp Kl t klus The root of a L nd of gra . used for tatt c. Orleake

Khull e Kurbee Mote Pattie Taut or gunny Moon Srker News

Store art cles Atta

Bhoosa Dhall Suttrungee

Massa bhoesa Stock articles

Bullies

Kajawahs Pull e

Saffees Sullectalis Pho vrahs

Pucl als Purd ths Doches Dandies

Kurnes Ch eks Dole Petarahs Jhampans

Punkha Tatties Bangh es Sepoy pal

Sungaha Elepkant gear

Guddela Gudd e Churtch Ta vah

Numda

Petter Bhene bhundu La pret

kannas

Thools S ree Goorbund Gyance Til ya

Howdah Charrens Shooterkhana Howdakhana Noth

Palan Suffra Pugh e

M les SoondLhag

Thurme Paytee Churoah Ch plun Kumurbund

Pyjama Zrendaz Chown

Mayo W Luckha dt, Deputy s s nt Communicaty General As a nt Umballa

D y stocks of jowar plant A leather bag used for drawing water

A long p ece of cloth of any L nd Course country canvas

A kind of grass used for making strings and ropes A griss with thick stalls used for thatching Broad tape woven from cotton thread

Plour of wheat or other gran Cl opped stra v The grain of various kinds of 'vetches Cla thed butte

Bed carpet Chopped straw and leaves of vetches

Small beams of t mber Crates for currying loads on camels

A sq no pece of rough country canvas from which cattle

n e fæl Small dusters used by kneeders Rough country canvas bags o tent cases Country hoe Camel mule or bullock water bags

Cu ta us er screens Latte carried by four bearers
A kind of lall litter carried by two bearers Beums of wood

Bamboo curtains like screens A leather bucket A square tin box in skeleton wooden cases A hill I tte car sed by two bearers A la ge fan s ringing from the roof

A bamboo frame covered will khus khus for cooling houses A pole used by cool es for carrying loads at either end

Sepoy's tent Poles used by hillmen for carrying loads

The lower elephant pad The upper ditte A pa of hides a water big Iron plate to halving cakes for elephants A Lind of felt pad

Riephant fetters

A covering for elephants or bullocks A ladder Plephant co er A part of the elephant's goal S vord

 $\$ L tiers strapped to the back of the elephants

Camel yard Store room for the how dah and gear Nose rope of bullocks o camels Cumel saddle for load

A squa e p ece of coarse country cauves for feeding cattle Head rope Rope or leather reins

Pads used for prel, ballocks or mules 1 wooll n pad for a tto G1 th for camels or b llocl s

A leather cove placed under the water bags to protect the

geur A l'and of co t worn by Natives A wa steleti A pur of los e trousers no m by Nati es

A co ering of red cloth for the elephant howdah A fly brush

Gemashta Agent Chowdry Contractor and overseer Jemadat Captum Maho t Elephant driver Missaldar Over eer

Appendix IV]

(954)

Can el establ sino t

Dubashy Surwan

M le establ d'n eni
Head nucce dum
Second muccadum
Muleteer
D aver

Overseer

T) ver

Muleteer D wer
Chuckler Coller maker

B llock establishment

Darogah Super ntendent
Cho thy Head o erseer
Doffsdar Overseer
Driver Ditto

Bearest estables of

Head meastry S per ntendent
Petty masstry Foreman
Res et Po ter and general laborer

Locatement-Cloud J V Hunt I leauned only English names in this report But I subjour a Report As text Community last of such terms —

Establishment

Nat we writer and translator Munsht Office aftendant Dufter Peon or chaprasa Messenger W tehman Che k dar Ant we agent Gomashta S rdar Headm n Headman of lascars Tn lal Porter Coolie

Mutanday An assistant \at vo wr ter
Musetry M ster of any c ft
Moel co A cobble or shocard er may worl er in Jeather

The he down of mule or elephant attendants

An b- emadar As stant headman

Mahout Elephant dr ver

Sree Groom

Syee Groom
Clovdry Aleadman
N is clowdry Assistant her lman
Missaldur Native iccorl leeper

Nama er of a butch of camels or catile
S rwan Ca nel dr ver

Cl'unu lar A nam sent in charge of stores from one place to another
Jorn. All bymass-cutter A genes-cutter who supplies gene to two borses
Ta rer

Salootre C mel nder Krhar A easte of Hindus emplor

A caste of Hundus employed princ pully for earry ng pull of and dool es

Bangl yl ardar or bangbywalla

A Nai ve porter wil o carnes loods on his sho ilder by a pole la lea ste ther end

Goorga Heop tal seell on
Did i West ceruitu
Bis st e West-evente
Bis de West-evente
Bis da A d. ggger
La cer Netwo en loc er tent p telbe
Ket al Mrvor of a tor nor este

Ket al Miyor of a to an or city
Gwilla Co berd
Mooilt Midonesian proct
Peopyw lla A cask po te
N I und Her e sloc
Batta Anextra llowance of pay

Ari des

Soojce Cron lated flour Ci nım No ook A desc pt on of cotton cloth ໜ້າ An eartl en bas n Jall ater jar No Is A lurger eartlen | s n Seoral e Prien ne goblet Glob h ter e el of eartlenware Glurra A small car lea pot
Brassall dlan
Ad cruto of cotton cloth nived H n1 Glinde

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Khulhe Kurbee Mote Patte Taut or gunny Moonj

Sirkee Newar

Store articles Atta

Bhoosa Thall Ghee Suttrunjee Missa bhoosa

Stock articles

Bulhes Kajawahs

Pullie Saffees Sulleetahs

Phowrahs P clals Purdahs Dooltes

Dandies Kurries Chicks Dole Petarahs

Jhampans Punl ha Tritties Banghies Sepoy pál

Singahs Guddela Guddie

Churrch Tawah Numda

Rel ler "Bhene" 'bhundur, ' "kannas La rpment

Elephant gear

Thools S ree Goorbund Gynnee Tulwas. Howdah Cha juma Sl ooterkhana

Howdakhana Nuth Palan Suff 7

Pughie Ras

M des Soondl has

Thurne Paytee Chureah

Chuplran Kumurband Pyjama Zrendaz Chown

Major W Lothbardt Deputy as stant Commu sary General Umballs

Gemashta Chowdry Jemadai Maho t Vissaldar

Contractor and overseer Captain Elephant driver Overseer

Course so untry canvas A lind of gress used for making strings and ropes A gress with thick stalks used for thatching Broad tape noven from cotton thread

Plour of wheat or other grun Chopped striw The grain of various kinds of 'vetches' Clanfied butter

Bed carpet Chopped straw and leaves of ' vetches"

A leather has used for drawing water

A long piece of cloth of any kind

Small beams of tumber Crates for earry ing loads on camels

A square piece of rough country canvas from which cattle are fed

Small dusters used by kneaders Rough country envis bigs or tent cases Country hoe Camel male or bullock water bags Curtains or screens Litter carried by four bearers

A kind of h li litter carried by two bearers Beums of wood Bumboo curtu as like screens

A leather bucket A square tin box in skeleton wooden cases A hill I tter carried by two bearers A large fan swinging from the roof A band so frame covered with khus khus for cooling houses

A pole used by cool es for carrying loads at either end Sepoy s tent

Poles used by hillmen for carrying loads

The lower elephant pad The upper ditto A pan of hides a water bag Iron plate for baking cakes for elephants A Lind of felt pad

Elephant fetters A covering for elephants or bullocks A ladder

Tlephant cover A 1 ut of the elephant's gen Sword

Latters stapped to the back of the elephants

Ćamel yard Store room for the howdah and genr Nose rope of bullocks or ermels Camel saddle for load

A square piece of course country canyrs for feeding cattle Hend 1op

Rope or leather reins

A wa stelotl

A fly brush

Pads used for pack bullocks or mules A voollen pall for latto G 1th for exmels or b llocl s

A pur of loose trousers worn by Natives

A leather cover placed under the water bags to protect the A hand of cost worn by Nat ses

A covering of red cloth for the elephant howdeh Agent

a 37

Tokedar Camel owner Camel driver Suraan Certahente of carmage Itlanamah

Bill Dustee

The above are some of the names, but I may mention that in office work the English names as, for instance, bill, certificate, return &2, are generally made use of

Captam J F Hobday Executive

Commissariat victualling or purchasing agent Gomashtas In Bombay they me called commissariat in spectors

Purveyore Purveyors Headman of kahars Sirdar Mate His resistant Kohai A doolte beater Waterman Blustie Pulladar Weighman Washerman Dhobie Scavenger or sweeper Mehter Head baker Mistrie Khumirgar A l'neider

A butcher Kasare Baipaii A eattle seller An office peon Chuprasa

A man who keeps records and looks after Duffra stationery, rules forms, &c

A digger Mochi A cobbler

. A tent-pitcher or one who looks after one , also Khallası called a lascar Sub overseer

Jemadaı A banghy bearer Banghywalla Napnawalla A measurer Lohan A blacksmith Barhar A carpenter Nalbund A famier

A muleman or muledraver Kutchmwalla Oontwalla. Camelman or camel-driver Bhereewalla A shepherd

Bilenalla Cowherd Millman Gwalla A man who looks after a bullock with water Puckah big

Can you suggest any method by which the expenditure on stores, whether minorted from abroad or purchased in India, can be reduced?

Colonel R A Moore Actug Comulssary General Modras

The expenditure on stores is limited to the requirements of the ser vice But it is difficult to estimate accurately and economically a year in advance. Under the present system of home indents, more stores are occasionally got out than ne afterwards found to be necessary and on the other hand supplies frequently run short, and have to be supplement ed by local purchases at advanced rates. It would be more economical to order sup hes as required on shorter notice, instead of the system of until indents checked by examiners controllers, local Government and finally by the Surreme Government. If these formalities cannot be dispensed with, it would be better to advertise in India for local deliner; of all stores required

I a epo t Colo el M W N T lon ll v Vo ng Commissor Ces (-a) Barlar

As a grads stores imported from alread, they are obtained through the Secretary of State for Ir div. presimable in the element in ark to and sections of selection for presentation in the energe class as and, as allarly stated in ray by appear and to suppose the space class as so long takes to recertion a helice all the supplex imported from Paghad cannot le obtained helily 1 contract as cheeping the chapter that home supply in view to mellang a charge on source of supply if the home supply in view to mellang a charge on source of supply if the leant to the notion the other charge of the State to do so. As may be suppled to the charge of the supple of the notion o the repair near of the dipartment the public are freely a vited to tender, and it may be assumed if it the rate secured are the most reasonable at which the sup he could be delivered and the services performed

No 5830, dated Umbrilla, 28th August 1879

From—Colovel M. J. Brander, Officiating Deputy Commissary-General, Upper Circle, To—The Secretary, Army Cigamization Commission.

In accordance with the invitation conveyed in the 4th paigraph of your letter No 139, dated 9th institution, to my address, I beg to submit the following observations offering suggestions tending, as I believe, to the greater efficiency of the commissant department in the Bengal pteathony.

- 1. The Bengul commusarant is officered on a peace footing, and it was only by drawing on the same lapariment in Bonday and Macha that it was able to send enough officers into the fell dump since late company, and officers of both presidences on now employed in Bengul 'McDan gage a Machas officer, not even in the commissional department, was in charge of the commission general General College and
- 2 Were the commissant offices of the three presidences to be embodied into one corps, the department generally in India would be a stronger one, and more capable than at present of meeting sudden decausable may quarter of the empire
- 3 This need not necessarily imply indevelonage of posting as a the case in the seconds broads, where offices are employed in my part of links without reference to presidency. This ide not think necessary or solvestile. Offices moving within the initia of their own presidency two already avery extenses are no which to opquie caperineer and its a fearing-the that ill food involvedge as far as possible of their own presidency should be coquired, which by interchanging offices into different presidences would not be so well attained.
- 4 But I consider that one and the same system in every particular should be adopted by all three presidences in the principle of the intechniqueally parts of a machine which need never remain out of gerr so long as its defector, component part can be enable sension. So that when employed on his same service, officers and subordunctes would find no difficulty in working together.
- 5 The great expense to which officers especially married ones, are put by long moves from one preedency to enciter, as is, I know, expenienced in the accounts branch, is, I consider, a good reason against the adoption of such a system
- 6 The warrant officers in the Bengal commissionat should be doubled at once. So great a scarcity was there, this during the company in Southern Afghanistan in officer had to accompany brigade which involved from Mithankot to Kasakhari under General I ane, or a absolutely unattended by a single warrant office, sorgeant or even clerk to weart him in his duties.
- Throughout the campaign the want of these man end of transic segrents was so great, that the commissional offices of the depittment had to debisitally mental vots, and thus were unable to furnant returns, balances of stone, &c. which were being urgently called for
- But I am no advocate for the general employment of variant officers in independent charges By a strings want of approximation of the importance of their position, these men when in charge of an outpost got no more pay than when in charge of a goudon under the eye of an officer
- 9 Pag of abordened:—A surgeon to present on pounce the commessant cets a staff alloa most fix 20 a month but he has out of it to pry for all his formed, seventia bisets, sweeper, punkles cooless, and by hveng out of berneds he but to pry more for a cool and for his weaking. So that, as I have exceedanced by frequent enquiry, a commission is expende on Re 20 a month as not rein burstle for the extra expense he is gut to This places than in the position of a ready may, which, surrounded us he is by those ready to put betwee into his hand, as most deturnented to his own secule and the inferences of the service.
- 10 In the same way our spends are undergand. A status generality who has the purchases of many theoreth represe worth of grain in a nound theoret. Be 51a menth, and no more—a much he frequently expends in thefre to keep his essential. More well have sembour, and it they early made game housely, they are dreven to in a soon, other way. Golven generalists are by an ensure side rule of the commission not allowed a clerk to resist them to keep their books, and consequently have to keep one at these over expense. As these more have either may represent so not of such to make a profit, and as their pay does not exceed 18 59, except in the case of one or two of our depth golvens, the to one draws no extremited. In my opions the search of the department requires running and that earlild be due by uncreasing the pay of the subschunstes to such a degree as to place from above the entraptation they are presuntly habit to
- 1) As regreds the paston of the commessance officers of the department, referred to an question 12, paper 17, it may be considered an anomalous one until thank they have reven to feel destinated and that it the may they are generally treated at the end of field operations by general officers, who do not seem we write, to consider at part of their duty to being to notice their services, and than they full to obtain those reasons often thereilly bestored on other members of the staff. The effect of this enough to obtain see them most descovering.
- 12 The communicating department is one which, from its great responsibilities and importance to the efficacy of an army, whether in quarters or in 40 ef eld, ought to be kept on a correspondingly langle footing and I consider it would greatly tend to this wave the head of the department graded as major-general, as in I believe the case in the British army.
- 13 Simplification of accounts we time of peace and war —I will offer no remarks on this head, at I believe a commission composed of an officer of expensions from each presidency as shortly to maching the head, you have a supplied to make a commission of their being more quickly rendered, and to reduces the ord of arrorrs.

J.

TRANSPORT

1. Please state your opinion of the present system of transport or carriage obtaining in India

Leutenant-General C T Cham berlain, CSI, Commanding Oudle Dayston. I think the system of sevure in time of peace very bribbross and very objectionable, but so far as the wants of the service are concerned, it is economic and sufficiently, for, so a rule, there is no difficulty in collecting any revenable quantity of carriage of soits, and the State neuron no isak whether

I think that where earls, or camels, or points are seized in common movements of troops, some compensation should be given in addition to

the ordinary rates of him which are poul by traders'
Now a days if a bullock scaless or dies, or the eart breaks down,
they are exchanged, and there the trunscation ends, leving the owner to
find his way back to where he was sensed, or to go where he likes, but
unremmented for his speerf loss

Locatement-General W T Hughes OB Commanding Strhund Division I understand the present system to be that, whenever transports required, the commerceant department, (neaded by the nevel authorities) purchases or have such earts and it insport earlies as districts will apply, and hands them over to the head of the commercent department with the troops to be modulated, for most the wants of regiments and departments. The objections to this explain are the delay that must ensure an collecting framesport, the enormous cost, the oppression to which owners are subjected, with the desertions of both cattle and followers which results

L cutepant General J. Forbes, Commanding Mhov. Division Ineffective animals kept tall too old and unfit for campugaing purposes, and camel supply very limited

Major-General A. W. Massi fire on R. Commanding Hyderabad Subsidiary Porce That obtainable in the Hyderabad terratories is adequate for the requirements of troops in cantenment and for ordinary relief, and susceptible of increase, up to limit of local issources, in the event of extraordinary requirements

Major General R O Br gbt, Commanding Meernt Divis on The present system I consider answers very well in operations in the

Major General H. R. Browne, Communiding Sanger District. There are two classes, railway and road Tunsport by and as exceedingly nell organized and effective The Innes are single, and the rolling stock, limited, wet they do very good service I do not see that much could be effected in the way of

improvement
The read transport, when consists of civits, elephants, and omels
and occasionally peck-bullocks, appears as well suited to the country and
the nature of the road over which treops move as any other that could

be devised

The system of hiring in time of peace might be modified.

There seems no good reason why corps should not indent upon and

there seems no good reason way corps should not indent upon the settle with the district end officers direct, instead of through the medium of the commissional department

Major Ceneral J W Seine lor, on C son dong borthern Data con Doubley ker y There we two descriptors of criming commonly used in this prediction, rec., crits will one or too pures of bullecks, according to the curviness we thereway of metalled robe and centals. Where fold editors are recommended and the second of the second of the curving its mentioned, males and a few sold and will also be found Curring as sometimes obtained on the inter through the essentiance of the local curvi subscripts, and it notice of a few days be given, the requisit grantly is turnshed unloand difficulty. The commercial officers generally act through their one a spent in providing currings that may be indented for

The present system unswers very well. There is abundance of curringe in India, and, when proper arrangements are made in good time, no difficulty is experienced in collecting it.

I am not aware that any system exists certainly not in the Madras pre thing; I commanding other of a regiment must precure it the best way to com, and it for fails, he must apply to the evid authorities Public carriage is obtained from the commissariationly

Inte experience has proved beyond a doubt that the present system is very defective, and the necessity for its complete more migration

My openion of the present system of transport is that it is a very defective one

Colonel J Mandonald, Secretary to the Government of Bombay, Military Department. The pacent system is good as for as it goes. It consists in this presidency of Leopang up a small establishment of Government carriage consisting of elephants, cancels, miles, bulbeds, and earls and ampair any additional samules or earls that may be required. Its client recommendation is the cheepasts as the anneals and east are taken charges of by the commensants, requiring ne special transport corps to take charge of the currings.

Colonel A. H. Murray, Deputy Ada tank General, Royal Artiflery in India At present there is in reality no system whatever Such as it is, I think the objections are—
absence of all organization

that the department which supplies the transport is the greatest consumer itself for carriage of its supplies,

hability of Natives to descrit on account of being very often compulsorily engaged

Locatement-Colonel & G T Hogg Dep to Querter-Muster General, Bombay Army The present system of transport, as I understand it, is that in time of peace movements of troops and earnings of stones when not managed by that and by as an e-curried out by tuthrang field column carrage and hard fransport. Du netwe service to Ladri the same system prevails, with this exception that the proportion of incid carriage is necessarily much increased.

I consider the system good, and that nothing very different could be introduced without incurring great expense

L enter aut Colonel H A. L tile Offic at g Deputy Assistant Quarter-Master Gereral. I do not consider that any other system than that of hinner carriage can be economically or advantageously instituted in India. But the system as it now exists might be improved upon by encounging the extensive breeding of mules under Government supervision and ud

Major A A A Killoch Deputy Assistant Quarter-Master General I consider that India possesses many peculiar advantages in the way of transport, but that many of them are thrown away for want of proper organization

In time of peace, carriege is cut down to the minimum, and, as far as any attempt to organize rigors, or any experience in the loading and management of animals gained by the thoops, it might heatly as well be non custeria.

To begin with the raw material-

The transport animals available in India are as follows -

Elephrants Donkeys
Camels Buffalces
Horses Ballocks
Mules Sheep and goats.

To take them in detail, and specify their several advantages and disadvantages-

Elephania—Esphania un newhable in turryng bezry luda, for ussisting in extracting terrages from mud or heavy eard, and in some few instances for drught

They are the only animals that can be used where there are no roads and the ground wet and swampy, or among high grass and jungle

They require abundance of forage and water, and are not only enormously expensive to feed, but

thrue boddy in countries at ere tiese necessaries are not abundant

Cauch —On lovel or sightly undustant ground, especially on dry soils, camels are perhaps the
most useful annuals for transport purposes in India As is well known, they will three on trees and
plants which no other annual will est, and they are very patient of thirst

They have moreover, the advantage of requiring very few attendants, one man being sufficient to look after a string of fifteen or more

On the clase hand, camels are very susceptible to cold and exposure to werther, and appear to have very deleate constitutions. They are quite out of place on very rough, fully, or modely modely and when they full to obtain a proper supply of the trees on which they browns, they become diseased, and due to large numbers

The enounous mortality among the crusels during the lite Afghan campaign is well known, and akthough much of it was doubtless due to neglect, it is certain that the camels from the plans of India

among muon of it was contries one to aggree, it is cervan unit the cames from the plans of India
were unswated to the clumbe, and that it was frequently impossible to during pages for them.

The Kuchi cunels, belonging to natures of Afgirmatica, were much lander and more useful
amonts, and they were accessioned to travel in a more contenent formation for a rough country—nt.,

The draws instead of in atomics. Complex need only the considered as not a numble.

If drover, needed of in strings. Camels need only be considered as pack, animals.

Houses—Horses or but fulls used for frareport except as pack, animals, the understeed animals which alone would be unsuffy worthing being too legal to be predicted; employed for draught purposes with the been; und clumey vehicles procurable in India.

The only exception to this is in the case of sits poones and I think that thus style of carringo has not been utilized as much as it might have been. Usually gallouing or poones are used as just animals, and when properly cared for and provided with proper pack saddles, they are most useful.

Made: —The remarks on horses, so far as they are used for transport purposes only, apply equally to makes, but the latter possess the great advantages of through on courses food and rarely requiring to be shot

Dealeys —Donkeys carry such and I loads, and more so slowly, that they cannot be considered of very much use, but they assist locally in bringing in firowood, currying water, &c They will pick up a lying where even mules will stare.

Bi figloss - Buffaloes are used both as pack animals and also for draught. For the former purps of they are very visible, as they curry exceedingly livery weights, and owing to their compret slape and whet legs, it is exerc to adjust with aird leads such as long room trus, berms, &c., on them, this can carried. In often drught then are not quite to well saided, as although strong enough, they are slow

Billosis - Bullocks have, next to camels, always formed the largest portion of Indian transport.

They are generally used for drought, but much of their power is wasted by the employment of the cumbrous antiquated Native carts or backenes, which have remained unimproved for generations

These vehicles combine almost every defect which a carriage could possess, their sole recommendations being apparently that they are generally to be procured in the country, and that they are some-

atoms anny spread with the life bell and the process of the contract and commany, and makes all you turns strongly and substitutelly bell.

Song at grants—I wan not wanter that shop and gorth laves ever been used to peak-turned by toops as Indri, but I mention then here because I have seen them very lengtly employed for the currage of grans, eall, borar, &c., in Tibels, and in the hall provinces of Graham' and Ammon There they are most result, everyang looks of from 20 to 40 pounds over the materiorist and regists. paths and requiring but few men to look after them

I am convinced that in operations in the hills, where these animals are habitually employed they might with great advantage be utilized for the transport of flour, &c , while the sheep might also be

eaten by the troops

The greater part of the above transport animals (with the exception of elephants, which are the properly of Government) are merely bried as required. There are no regularly instructed drivers, but the men in charge of the animals we frequently wild and uncouth, with little more intellect than their own bests. The small proportion of transport kept up is under no regular organization, and is indeed but seldom used for military purposes. When it is, the troops who have to move (brying hid more to a recommendation of the forment's quite general of even the method of londing animals. Louis are put on anyhors, men'ely to fall of after going a faw yeess, and cause endless treathe and delay The direct having no more knowledge than the troops, and netther (see regards Barbai soldiers) un-derstanding the other, terrible continuous erasues, and in fact the column gives more the size of the flight of a disorganized rabble with their goods and chattels than the march of an army with its

In short, with all the facilities within our reach, I consider that we have no system of trunsport

Cupius M J Long Hurman, Deputy A istant Quarter Muster General.

The present system, if carried out properly, as it is intended that it should be is well suited for slow movements in perce time in the phins of India, but as it really is carried out, it becomes at all times, and more especially in times of pressure, a means of greatly oppressing the owners of critle and carts

Instances occur yearly A commissaint officer is required to provide, sq., 200 carts. He makes over the order to one of the regular contractors that are scattered about all over India, and agrees that the carts are to be in by a certain date. At the same time he writes to the officer in civil charge of the district requesting him to assist the contractor, and this assistance is given at once. The contractor then goes off to certain parts of the district, the resources of which are well known to him, and gives using given an overall vary in each place that 200 certs are resources of wince are west from a no min, using the odd in the owned vary in each place that 200 certs are required immoditely by Government, and by the date he is a better year continue to have at least 600 certs, out of which he selects 200, letting of vermany. A curry god farther for, out as going on must be less god as a full compriment; once as must money besides in the straps of bubes as he can squeeze out of the people,—the owners of all laving to feed their animals at their own cost until the day originally fixed by the commissarrat officer

This is all gross oppression, and the system is well known and condemned by many civil officers

who have pud attention to it

If the commissarrat officer requires more carriage than he has at hand, the civil officer alone should be called on to provide the surplus

I rulenant Colonel R Blumdell.

I don't think that at present there is any organized system of carringe There is a collection of elephants, carnels, mules, and bullocks at different stations, but no regular system I think the transport in India wants thorough reorganization

I e te unt Colonel R C Clard otl (Q t a t O ra) I eral I sacer

Lerten at Cole el Lord R D Kerr, Command og 10th Hussars

If camels were properly fed, they would answer

A large question

I believe that the transport system is expable of much improvement, in order that the requisite amount of carrage may be at all time, available for service at shoriest notice. The object amed at, as I under stand it, is how to arrive at a satisfactor; method of livrang at command a siff cane; of trusport under truned officers, &c , without the cost of municipaning the same. Others have field in solving this difficulty, but on this core alone the most layish expenditure has always been correct by the call for economy

If the district in a high the troops are stationed fail to produce the quantity of currage required by troops talling the field the balance neces its to complete their equipment should be kept as public currage

by the commis must department

Regimental transport, with supernumerary men and horses, most aliant grous bod by my regument at outumn manness rests much ed and no read I encist

I can ther that a section of carriage should be adopted that would and er for both internal as well as external warfare, the prevent system of depending my the on canada being changed, as the late campagn has shown it to be utterly unsuited for warfare beyond the frontier, where camel grazing is seldom to be found. Pony and mule carriage without doubt is by far the most efficient for all countries and for all climates

Mayer J W Chaples 8th Hus

I consider the present system of transport or currage obtuning in India works fairly well in the plains I have no experience to be able to judge of 14 on the frontier

Mager E A. Wood 10th Hus

I am not sufficiently well requainted with the cost or system to give an opinion but I fancy that the cost to Government is unnecessarily great for the work that it commands

Capta u J A S Mackenne 9th

My own experience of transport in India is that on the whole, it is satisfactory but would be very much improved by having a fixed mule establishment added to it, and kept at all the important stations in

Colonel J A Ruddell 1 2oth Regiment.

I am of opinion that the transport should be a separate department,

Lee terant-Colonel T Rowla d Command my 1 of a Fundamen

under experienced and able officers, who would be entirely respon sible for its officiency The present system I consider to be objectionable and throws work on commissioned officers which they cannot properly supervise and

I think it well suited to the resources and nature of the country L cutcumt-Colonel M MacGre gor 1 18th (The Royal Insh)

&e , for the troops

carry out, more especially on scivice in the field

As far as I have expenence in the ordinary regimental ichiefs the present system is satisfactory I have made but one march with troops in India that was a 30-

Lentenant Colonel A. Temple gass Commanding 1 21st Fus hers Lacatement Colonel G. F. Walker

days march from Secunderedad to Fulputn in 1868. The transport an angements including commissanat elephants and camels and hired country cirts answered well. The troops learnt much of what is most useful to soldiers—quickly getting under arms in the dark maiching considerable distances, ripidly pitching and striking camps, &c., &c. I do not think the present system is satisfactory especially if it should become necessary to move a very luge force but at the same

L cutement Colosel J S Hand Communit ng 44th Reg ment

1 12th Foot

time I um not prepared to offer any opinion or suggestion that would tend to improve it It is had being incorpible of ready expansion, and costly, without an equivalent in ellimency

Logiterant-Colonel J W Hughes 54th Regement

I think that considering the great variety of circumstances to be met the system of carriege in India has worked more successfully than in any other country

Licuterant Colonel C B Knowles Communding 67th Regi

Experience confined to the late Afghan campaign. Bullocks and carts also the camels furnished by contractors were, as a rule bad. The animals weak generally the result of insufficient food, but the country frequently furnished very scanty grazing for estile

L sutcurat-Colonel Parker 92nd Highlanders Major F Stephen 4th Buttalion Rule Br gado

I am not in favor of the present system It is faulty in the extreme At present all transport is supplied through the commissurest department. On the onthreak of war the commissurest department is strained to the utmost to obtain stores,

Major H P Pearson 12th Foot

of obtaining and collect ug transport Broadly speaking the currage employed in India consists of camels and hackeries and these are hired by Government as occasion demands. The State possesses no carrage in India, except elephants and a few mules here and there, and cannot, structly speaking, he said to have a

In addition to this, they have now the extra strain

system of transport Nevertheless I am not at all disposed to advocate a change in the method which has been so long followed for supplying the treops in India with carriage and which in that country has always worled uell Carriage for peace requirements has intherto been forthcoming in any quantity, and good of its land. I cannot suggest any plan at once so efficient and so economical

Major J H Campbell 33rd Reg ment

It is of course too cumbersome but until the country is covered by a network of good roads, I do not see it can be improved on Carriage wares very much in the different parts of India. That

Major Dysm Lanne 34th Rega

in use by the Natives usually seems the most suitable to the circum stances of that particular part Next to the railway come the elephants then camels

port in India is very slow, and occupies great length of road

(962)

Appendix IV.]

Major W H. J. Charle, 22nd Highlanders, I um of opmon that the present system of transport narrows perfectly in peace time, but is not suttible to variour As has been proved in the pre-cet campings, camels are not fit for work in mountainous countries, if at all hard worked, and there is always great difficulty in cetting food for them

getting tool to them. The only entrings in my opinion, that should be used in time of war is made entrings. The longuage &e, of a force is extract much quicket, it is easier profest, the numeric can go longer distance, and stand greater fatigues. The difficulty in feeding them is much less

Mayor G S Whate Stad High Trade

The system of transport appears to have worked fruly well m. India

Colonel C R O Erans Command , R & Meerut D vasion a

As good as the transport of the country generally admits of, combined with its comony

L entenant Colonel II Stroner Communit g Royal Artility, Thaye myo I have had little experience of the The bulled trans on the grand trush road between Lalorer and Peshavar and Lalore and Pesspare and the d I gharry system as far as I saw of it, inswered well in ordinary times. The carelles that curred the begging of the latter I marched with being changed several times between Total Attock and

Personage, did di fish a si segmad de them.
Al Bayting, Patrich Burns, the commission of continent I no Al Bayting, Patrich Burns, the commission of useful to like a continent of useful to like a continent of the continent of t

I culement Colonel L Ectches, Poval Artiflery

I timh, it goes, but the end untherity or gist to have the power to press carriage. It would be very rough necessary to do so, but the Nitness of the country would (on should) then be eved the unsone of twee required to less up perminent regimental or more tible column in trappation in hypes each

Major Revise Hobart R.A. M in tary See they to this Grace the Governor of Wadras

I have no opmous worth stating on the subject of amy trusport, and only the upsessees of a regimental officer, but I doubt which or the ordinary images of the country on he reduced to 1 Tansport assisting, though possibly it may be more as stematically significant. The limit trumport has measured the purposes of the British stray in Ma Last a long of the limit trusport high country and habits of the people reducing the case of the country and habits of the people reducing the country and habits of the people reducing the state of the control the control the control to t

Major H C Leves Commanding I let I mail Artist ry

at possible

As far at I could seem the late Afgirm expedition, there had been
no ratern organized to meet in emergency. Until quit, the end of the
war the transport (fixed her column) was by camel currage and small
country curts. I have not excell in India mywhere wile rut, to my
lane kidge, there have been a protegranted system. It is most describle,
I think, it at a transport system should be set an foot.

Vaj t F T H me Comig G-Ci jal Horse trishere

I consider the present system well suited to the country

Mal t W W Manhol Com mand g I A Peyal Horse Arte

The pre-ent system of transport or carriage answers well for ordinary marching and movements in peace time

Vije T M Hitelres Cun mal g f Ind Potal to Ness

I should than it is the best in the norld, and only requires an effici

"Tager the Houlde A Stewart

ent staff of transport non commissioned officers under the commissional The objections I sl ould offer to it are—

C wa long I C Poyal Horse Artillers

Is — I hat I is large a sent large around of the currence of the supplies

2rd — that I is large a sent large around of the currence of the supplies

2rd - Hast I is here a very large amount of the carrage is obtained under pressure, if not compulsion, and therefore halle to disert.

If it be correct to call it a system, it is one atterly unnoting of the fine army of India

I thuk there came of Ladiu in crunity curts, camels, billed's, and points are caple, provided there are posterior forecast and the locating of the namels is load of to mp or time, not that this ver clean, and all more in a correspond it to do not limb. I am also of a tion that, with these resource, it would be a waste of money to go to for my severa of Lamyeu in the clear are

I have not had an expenence of Indian transport in the phase, but from observation during the mount compange, I do not think any system, p openly so called, can be aid to exist

Capta a G C Bayly 13 Stl Royal Artillery

The present system appears to maswer fairly well in time of peace, and I have no serven to doubt its efferency for internal war regards external nurface, it seems to me to have some defects, which would probably be more or less apparent in internal warfare also

There being no framework of a trusport corps, the collection of any great amount of transport is slower than it need be

It is probably more expensive than absolutely necessary

There is a want of efficiency, owing to there being no system laid down ready for immediate use

And last, but not least, there appears to be a want of proper super vision leading (until it is remedied) to unnecessary loss of transport ammals

Loratenant P C Wate R.s. No 4 (Hazara) Mountain Esticry Pumph Iron er Force,

The only real experience that I have had on the subject has been in the late Afghan campaign. In the Janaka expedition the base of operations was so near as to call for no particular exertions on the part of the transport

During this late compagn I consider that the present system of transport was not in every way a success, owing chiefly to want of supervision in a department where of all others daily supervision was success, owing councy or wan an asymptomic in a confusion in an end of the colors and supervision was increasing. The commissional, allowly overfixed with work in all not be true to give this supervision, and the tumport officers related by the staff of non commissioned efficiency are use under them to staff the commissioned efficiency are used them to staff the commissioned efficiency are used them to contain the time to the commissioned efficiency or satisfacts to desirate, and the contained the contained the contained to the contained the contained to the contained to the contained the contained the contained the contained to the contained to the contained the contained the contained the contained the contained to the contained the contained to the contained where each named was the property of the man looking after it, whose interest it therefore became to lool after his animal and gear to the best of his ability. Hued make, as a rule, belong to the trading portion of the bunnish class men, who from long expensive knew intunviely how the mule should be liden, and how it should be fed. The Government miles however—at least those impressed for this campaign—were put into the hands of down country men, with but little knowledge of a mule, and with also hatchy no interest in whither the animals in his charge hard or not

with a spiritely no interest in whiche the animals in the cauge reven the nor.

The caused curvage, as illustrated in this company as an available as a trusquet vammel when
working on good rouds, and propenly watered and field. The constmost difficulty however of feeding
them nevely partity of the whole trusquet. But I found, this might have been obvited to a great
extent by Government having procedured the necessary feed the them, esting the price of the sum out
of the next's pay, national of leavings it to the next to fool their own estite so far as they could or
would interest to the trouble to do so. Letterly in the campange, the trusport are divided into a signmental, departmental, and general and give every promise of improvement under the close supervision to which it now became subjected. It became ilso the reterest of each regiment, battery, and depart-

which is now iterate suspector. We cannot see the research and the results of the efficiency of the own transport, so for an possible.

The list few weeks of the compage ballock erris were used, with great telled to the rest of the transport, but owing to the brichness of the reads, the number of bullocks required to erich earth new out of all proportion to the load drawn, and hence this became a most expensive form of transport

Colonel O Wilkinson 2nd Bon gal Ca alry

I believe the transport system as hitherto obtained in India would have unswered perfectly so long as operations were confined to Hundustan, but not beyond the frentzer, as camels cannot stand the climate It has been hather to considered equal to all demands made upon it

Colonel High Go gl (mandant 12tl Bangal Cavalry Captain M G Gorard 2nd Reg ment Cratral fad a Horse.

The existing plan of a certain amount of commissional carrage, supplemented by the of local transport, though good in principle, fulls to meet until the requirements from the unsuitable nature of carrage in general use, and in a minor degree from madequate supervision in the field

Trusport should be regul ded by the following considerations -

let - first its mobility is to the full as important as its actual carrying power-a fact absolutely

ignored by our present system
201-That, consistently with above, "wheeled" is always preferable to 'pack' carriage, one ammal doing the work of four

numer using new consection.

Aid—Init, as no privide or shakese I nows, a light equipment always up when a ratical is far
now conductor to conduct (e., he light) that a more complete and shower one, we should so modify
on cump equipment as to includite qualifying and trust not.

And letly, Government should remember that the interduction of compressed provisions is the most

important point of all in the question of transport, as it would reduce commissariat caurage by T_{ij} per cent With regard to first the middary advantages of a train that can keep up with infinity are too obvious to require further notice, but whilst our commissant it calculate the arrights the different I mids of carriage can more, they utterly forget to add in the relative time to their estimates matance, though 100 pouses cost the vane, and transport half the weights that 100 carnels do, stall as they can verage 15 or 18 mules to the latter's 10, ten days' ratous on pouses are for militray purpose, equivalent to 15 or 18 on example. Carnels and draught bulled a should be reboiltely condemed, my Camels and draught bulled a should be absolutely condemned, and

upleted by mules, tonces and values. With normal to second rule, as one drought make does the need of four pack, as he of rested during short latts, is he's liable to soreback and as time and labor in loading an whence a wheeles an east to make a my whence a wheeles and a section of the complete courings is in disciplificated, because we complete bulled earlies and landscares so unumed uncless off good tools, and parfielly slow on them. For better to have smaller and the land to the couring to the A few bred downs are nothing, but my arrible delay fatal

The putterns of the Government bullock wagons we see seem to have been set and it ought to have been left to fate to find some minut out here that would f should be elected not only with regard to the powers of the more suitable draw but also, what is unvariably overlooked, of a sputable track between wheels,

country roads - Nor should we confine our-cives to one fixed pattern - Whilst inules or yaboos could to most advantageously used with Malte e earls of mme or ten cut and ine camellowls of briggings, we could find employ man to the those ands of elemp hittle country ratios, so easily proranging, we come more employment not me incommon or except intric country visitors. So every pre-entitle in a modeling distant of elds that would every a complete of books. Due the common bare clark contrasts from his with cumel curracy, and if one driver a required to each, thus is more than componented for by the fir longer markets that can be made. Be also makes and datatory, a fon displants for exceptional purposes should only be lept up. The pany curracy of Native cut his a most excellent, that the number of syees with them only justified by considerations of forege. As stated elsewhen, in military industry in the contrast of the contrast o

practicable

Country crits, crimels, and bringers piel billocks should only be used for reserve stores, and worked by contract. The list of these, though slow, are very relatible, require no help, and crit diffed themselves, so should be largely employed for internal warfare

Brigaber-General C T Gold v Com muding I in jab - Front er

The system of obtuning curinge in India has hitherto provol efficient and well adapted to the country.

The question is did the system break down during the late was from

any inherent fullt or weakness, or from a change in the condition of the country and a domination in the supply of carring? Undoubtedly, since the extension of rank sys, the number of camels, carts, and bullocks must leave diminished, and before deciding whether it is possible to continue the present system, it is necessary to receiting the amount of curringe procurable throughout the country. District officers would supply this information in a very short time, if it has not already been suj plied

Colonel J Blast v.c. Commoun l mg 1st Bombay Lancers

Critinge is at all times proceed the through the politicals in the country what Lind of carriage is obtainable. The system is not a good one, for, if a large force is required to be moved, you are at the meres of Native untherstres

To keep up currage is at all times expensive The contract sistem was found to maker well in the famine district, where light carts Mule and earned carriage are by far the best light Multers earls, I think, would be found very useful. One mule takes them along early, ind the hanness is simple and strong, no colluris บราส

L'entenn it Colonel C LaTonel e Comi un dant I on a Horse.

The principal objections to the present system of transport are that there is a uant of military organization and that on the outbreak of hostilities the camp followers compoung the trunsport frum form a lunge mass of helpless men, who, from the absence of habits of disci pline add considerably to the difficulties and emburassment of trunsport officers 1 unthermore, large sums of public money are now sport, which go to fill the pool ets of rich contractors, which, if applied in a more methodisch menner, wollde in un oj mion, it in actude reduction of expenditure, produce for more estisfactory results. Further on, in reply to questions Nos 7 and 8, I shall explain in detail my proposit for an uni rovement of the existing state of affairs

Isr tennt (Colonel J. H. P. introl v. m. Com um sching and Valtal r m

I think the system of transport us now obtaining in this country is very finity. The animals as well as the men belonging to them are stronge to the well the latter are unknown to the regiments with which they are employed, and afterly decould of my discapline, and for proofs of the lang regs spot in by the men of that regiment Worsever, the commanding theres of regiments having little or nothing to do not he before my decount of the animals, they are not of the animals, they are not of the animals, they are not of well looked after or exced for is they would be if they were permanently made over to regiments

May - 1 P Lall e- 9th Be got

It is madequale to meet the contingeneus of trans frontier war, on a large seale the extat of our ne much is imperfectly known, and per thouse meres can India, the sum of currence may be explicitly proportionably detrived, unless great inducements are hold out to

luceder ellig yannıls There is if a twint I in littery organization in our system

The is a subject I have not given much attention to, and ther the on a tyrepand to a so an opinion, further than that I consider the product season defect in many ways, being cody, an electnathout organization, and made prote to meet my sudden can record

(965)

or from cold and wet, and so become welces, and the At all times, and especially during a campuign, of from that the variety and to detailed to see that proper food is given, and that bugging-animals are mevery respect duly eared for And if on foreign service elothing of any kind should be a necessity, it should be provided without delay by the Government. The possibility of such need can always be foreseen, and should in all cases be provided for

Color el E Dan le Ige Command mg 40tl Native Inf'u try

As the present system proved to be incomplete in the recent cam-paign, maximuch as its working fieled to provide suitable carriage for mountain wirfare, it must be considered a failure

Color el G W Frastr, 30th hatma Infantry

I consider that the system of transport or carriage as now obtaining in India very faulty. It is entirely without organization of any I med An insufficient amount of curriage of good quality is maintained in peace time. On the outbreal of a war a transport department tained in perior time. On the concern of which a temporal experiments is hashly to mod, composed of officers the volunteer from the regiments not vettrely employed. These officers, though mostly willing and hard-wolling, hashing had no pers ones experience of the system, and being in very few instruces acquired with the language colloquially, numbers of animals perish before the system gets into working order

L'entenna t-Colonel II Worsley, Communing 7th Nature Infantry

In peace satisfactory enough, as time is no object and transport is always obtainable, but in war results in delay, great confusion, and comparative mefficiency

L cutenant-Color of R. J. Walker Communicating 17th Nature Is facility Laentement Colonel R G Reguis,

I think it is fauly good. Anything better would cost more money

20th Pennab Nature Infantry

Faulty to a degree I reported fully on the subject at Gundamul to the General Officer Communding 1st Drusson, Peshawar Valley Field Force, but regret that the copy of my report has been lost. The original is probably in Colonel MiteGregor's office

Lentenant-Colonel F B Nov man Co and dang 21th Punjah Nature Infantry

I think that it possesses the germ of an efficient system, but it fuls in not being carrible of sufficiently upon expression and from want of proper supcantendence, and I confess that I cannot see how there earls are to be remedied, except at great expense

rterant-Colonel H G Tucker 41st Nat ve Infantry

Indian transport consists of four different modes of carriage ~ lot -Hung or purchasing pack numals, such as camels, bullocks, mules, pomes, elephants, &e

2ndly -Bullock carts (wheeled currage) 3rdly - Rathway

Athly -Coolies

With reference to the first of these wr, prok-unimals, it is a difficult and slow process to collect a sufficient number of immals to more

They also carry very light louds, uz -Camels 4 mounds Bullocks 0

Mules and ponses Lit - Liephants can carry eight to ten maunds, but the expense of their stem is enormous, and they are labeled at II times to a breakdown for now accomplishing fune, meeting with condented and the road, and particularly flows want of a proper unsum of food and being converted as that the service should not be entirely depended upon. Of course, when tends counted be made, ou if any currege is

required in a hilly country, pack animals and cookes will be the only mode of carrage available required in a dirty country, pass admires the others win or on any more or carring at these 20 My — Cottes, &o, are much before divided as transport carring at these as will the healthing a fur rood, as they cerry greater loads. A four bullock carr, for asstrance, should be table to take from 16 to 30 manuts, and the cart are pretenable to the prode-cannels, as take pract one burloken the bullods is morely being tall on out of the certs at the end of every murch. He beaufit of this is almost mericulable, as with pack numris, which have to be unladen at the end of each day's amost incretotable, a with pack numbly, which is not to be unriced at the end of each day's manch, the constant loosing with subscript destroys an enertonean quantity of the stores. Roses tecks (the constantly being this own on to the ground begge constanting floor, &c, become seasons and quantities fill on the ground and are wested, and when on the ground, makes the transpart officer have tune and light to collect the whole of the store and peet them spettles, they we hable to be statical orders and other names fare open the begg and destroy the contexts. The canchina do not like yelling up the large, &c, as it wide greatly to the work and tune of leading and uncloning. Thus has been preven in the lest Afgirst a surround to the first three contexts.

Stuly -The fallway trinsport is, though at the commencement by far the most expensive mode of transport, much the best, and in the long n n would most probably be found not so very much more expensive than the other modes of crimage. By this means of transport you are certain of three things First, your stores sirile in quek time, and you can tell pretty seemately when your supplies will arrive which you cannot do with any exactness with either of the other modes of transport Secondly, the stores are well packed in vans and protected from run, &c , also they are not so lakely to be stolen on the load Thursly, there is less danger of a breakdown

Ithly -- Cooke transport is simply adapted for hill written when no other carringe is procui ible

Major S r B. P Broulen | Burt, It is not good or sound It answers for earrying out ordinary reliefs, and for supplying carriage for ordinary purposes in time of peace May v A C W Crockshr at Com manulong 32n l Piot ours

The only systems I know of are— Lat —The concepte column, which is treated of in question 3 2n / - Carrage for relief, which is divided into public and private -the former being supplied by the commissaint from public carriage when available, the letter generally supplied by the civil ruthorities.

This carriage rearms in regiment it charge until ichered of dischinged.

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themselves, so should be largely employed for internal warfure

Nor should we confine ourselves to one fixed pattern Whilst inules or yabous could country roads coming young now security of commercementaries were not not not to control basis of more two north and five countle basis of integers, we could find employment for the these and of shorty hitle country thicker as easy pre-curibe an amounted pattern of all that would every a couple of hosts. But not common base calls on the state of the country that country that send carries a second to the state would every a couple of hosts. But not common base claim outsites from the two compensation of the state of the country that country the state of the st

few elephunts for exceptional purposes should only be lept up

The pony carrage of Native evalues is most excellent, but the number of syces with them only justified by considerations of forage As stated elsewhere, an indirect reduction is, however,

practicable Country cuts, camels, and brayer pack bullecks should only be used for reserve store, not worked by contract. The hist of these though slow, are very rehable, require no help and can defend

Brigader Georal C J Godby The system of obtaining curringe in India has hitherto proved Commaning Punjab Frontee efficient and well adapted to the country

Ti e question is, did the system break down during the late war from any subcrent fault or we kness, or from a change in the condition of the country and a diminution in the supply of carriage? Undoubledly, since the extension of rminays, the number of camels, carts, and bellocks must have dimunished, and before deviding whether it is possible to continue the present system, it is necessary to userful the amount of carriage procumable throughout the country. District officers would supply this information in a very short time, if it has not already been

Colonel T Blar vo, Command mg 1st Bombay Lancers

Curinge is at all times precurible through the politicals — It depends much upon the country what kind of curn igo is obtainable — The system is not a good one for, if a large force is required to be moved, you are at the mercy of Native authorities

To keep up carrige is at all times expensive The contract system was found to answer well in the famine districts, where light carts were used Mule and comel cannage are by far the best Light Miltese carts, I thind, would be found very useful. One mule takes there done easily, and the harness is simple and strong, no collar is used

L entenant Colonel C LaTonel e, Communidant Poons Horse

The principal objections to the present system of transport and that there is a want of mulitary organization and that on the outbreak of hostilities the cump followers composing the transport train form a luge mass of helpless men who, from the absence of helpts of disc pline add considerably to the difficulties and embarassment of transport officers I arthermore, large sums of public money are now spent, which go to fill the poel ets of rich contractors, which, if applied in a more methodical manner, would in my opinion, at an actual reduction of expenditure, produce far more satisfactory results. Further on, in reply to questions Nos 7 and 8, I shall explain in detail my proposal for an improvement of the existing state of affairs

Lassian t Colonel J H P Maleol so , Communiting 3rd Val Horse

I think the system of transport as now obtaining in this country Is very faulty. He manufa is well as the men belonging to them we strugge to the well. The manufa is well as the men belonging to them we strugge to the well. The men who was the regiments with which they are employed, and uttiely downed of any despite and frequently of the language speken by the men of their regiments. Moreover, the commanding officers of regiments having hitle or not mg to do with the feeding and eare of the animals, they are not so well looke I alter or cared ion as they would be if they were permanently made over to regiments

Major A P Palmer 5th Bengal

It is made juste to meet the contingencies of trans frontier wars on a large scale "the extent of our resources as imperfectly I nown, and as rails as smerease to India the animal carriage may be expected to proportionably decrease, unless great inducements are held out to breeders of laggage ammils

There is also i want of mildary organization in our system

Color of T. Dorna. Con tantal ag 2"th P. j 1 Nat re J f. stry

This is a subject I have not given much attention to, and therefore am not prepared to give an opinion, further than that I consider the present system is very defective in many ways, being costly, uncertain, without organization, and madequate to meet any sudden emergency

Colonel H S OF lord Common d ant that B all factra

I consider the present system of trunsport as good and economical as could be into duced. The difficulty about back a reage and the mimense in l'unnecessary mercase of rides within the l'sé thirti y are

are mounty attributable to the erromous views of well meaning, but mistaken, enthans. With respect to lared entrage, there are one some when special procesutions with introducing character with any old to use of entries, here to be some when sport is post-invariant energial to the feel ling and of thing of entitle are not seem and thing can be full deads that it was neglect of the ejecutions that cause to much loss and mean entence during the late companies. On the continuous that it was not to make as much as by while Sometimes the latter would do not, thing the continuous that it was not to make as much as by while Sometimes the latter would do not, thing to get themselves free Government on the other hand, tries to 173 as hittle as possible and to her men to contracts when, from special and meaning lated circumstances, they ented has file consequences, that between the two tile poor runnings are started, either through want of actual fool, or from cold and wet, and so become useless, and die At all times, and especially during a campagu, of from that any the control of the be provided without delay by the Government The possibility of such need can always be foreseen, and should in all cases be provided for

Colonel E. Bandr bye Command-ung 40th Native Infinites

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Colored G W France 29th Nature Infantry

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Licatement Colonel H Worsley, Communium 7th Native Infantry

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Lecutezant-Colonel R. J. Walker, Commanding 17th N. tave Infinitry Le terrat Colonal R. G. Regers, 20th Punjab Native Infantry

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Lacutement-Colonel E. G. Tucker alst Native Infantry

Indian transport consists of four different modes of enirgo -1st — Hurng or purchasing pack animals, such as camels, bullocks, mules, ponies, elephritis, &c

2ndly -Bullock carts (wheeled carrage)

3r lly -Railwry 4thly -Cookes

With reference to the first of these, or, pick mainly it is a diffi eult and slow process to collect a softenent number of animals to move a large force. They also carry very light lovds, etc.

Camels 1 manuds Bullocks 6

Mules and pomes list - Elephants can carry eight to ten maunds, but the expense of fielding them is enormous, and they are liable that littless to a berelations for manners, some received or forcing with recollects on the road, and particularly from want of a proper manner of feed and being overworked, so that this carriage bloods to the territy depended upon Of comes, when roads cannot be reade, or if any carriage is required, in a hilly country, pack, namels and cooker will be the only mode of curroge aryubble

required in a hilly country, park dameds and coolers will be the only mode of currings available. $2\pi l l p - Corts, doe,$ is much after adopted as the road, as they carry greater looks. A four bulled, ever, for metance, should be the long of a fair road, as they carry greater looks. A four bulled, ever, for metance, should be table to a few mod, as they carry greater looks. A four bulled, ever, for metance, should be not be found in a fair mode, as they need never be unished, the held of smerely being taken ext of the cents of the every match. The benefit of this anison transicable, as with pred camerals, which have to be unblack at the end of each day's march, the constant leading and unbroking destroys an entermous quantity of the stores. Bowes break rifer constantly being thrown on to the ground, logs conforming from, the Joseon messewa, and quantities fall on the ground and we writed, and when on the ground, makes the transport office has ten early light to collect the value of the stores and past, then to peaker, they we findle to be stoler, or dogs and other nameds tan open the brya and destroy the contents. The cumchund into the log hand, we have been proved in the left of Afghan war.

3.1/2 — The takey with the past, a besen the work and time of leading and valueding. This has been proved in the left of Afghan war.

3r ily -The rathery transport is, though at the commencement by far the most expensive mode of times ort, much the best, and in the long ion would most probably be found not so very much more rung on that the other modes of curries Ball made made to be the contain the seven and finest experience than the other modes of curries Ball made made to the mode to seve certain of fines things. Disk, you stock same a qualitation of these, and you can tell prefer nevertely when your supplies will turn, a back you cannot do such my expectes, while talker of the other modes of transpart. Secondly, the stores are well juked in vans and protected from run, to , also they are not so likely to be stokn on the read. Thurth, there is less danger of a breakdown

Athly -Cooks transport is simply adapted for hill warfue when no other carriage is procurable

Major Sr B P Brombond Bart 49th Nata e Life try It is not good or sound. It answers for carrying out ordinary reliefs, and for supplying entringe for ordinary purposes in time of peace

Major A C W Cookshauk Com manda g 22a i Pioneers The only systems I know of are-

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Sud - Carriage for relief, which is divided into public and private the former being supplied by the commerciant from public curring when which is, the little generally supplied by the curl neitherities. This carring remutes in regiment debrings until reheated or discharged for peace pumposes I don't think a simpler or letter system could be devised

Major F F Rowcroft 4th

Colonel H Bo sragon Commanding 4th S kins

Le tienuit-Colonel I I Baswell Commanding 2nd 5 kles Leentenant Colonel F I Bain bridge 4th Shlus 3rd—Corrange for non—My experience is that a regiment is generally spired with its quantum of transport, and returns charge of it except during flow platis, when it is otherwise without Ose-sou-fly speech transgements in the shape of coolic corp are required and an item organized. Provided sufficient time is given to collect curage the system causes well enough.

There appears to be no system at all, beyond what is very faulty and expensive, and hable to break down under any severe strain

Radically bad

That it is ulterly faulty, and requires organization

The present system of transport, **e*, department*d, under the commission is unascentate, which was proposed associated to bright down in times of war, for the sumple reason that the commission is not able to stand the strum of the extra work imposed on it, in hermal to supply and appendical the triumpers of an entry in addition to the heavy dates of their legiturate department.

I also that that transport, except that attached to regiments a the advanced column, should be voiled on the clopes a stem, the observations, should be voiled on the clopes a stem, the observations of which is obvious, as the animals on return between stages or no indeed on the president of the control of

at every ctaps stores of gran and fodder should be collected.

I would suggest that transport of all kinds working from the base of operations to the front with supplies and stores should be on this

Major A G Ross 1st Sillis

system

There does not seem to be any military system, sire in fragments, like the Pesh is at and Rawal Prich male trums Carrage is local and winous all over the country as follows—

Verious kinds of curts Mules
Elephrats Donkeys
Camels Bullocks

Cookes, most and worses.

Cookes, most and worses.

Cookes, most and worses.

They will well derum by muke: The Indiancerf is theory, slow, and emishersome. There is a good native cert in Turboot Sunn, Clumpyrem. It is
sightly drawn by two bellocks, exist | sept in order, and earner form 26 to 60 mounds. It cannot go
on rough ground. All Indian series are improvable, and any cert manufacturer could produce a cent it
to work in any part of the Indian plums. Roads in some other counts as where they shalterly use
cut is seem much worse then Indian routh as fix as I can seem cather counts where they shalterly is
exit is seem much worse then Indian routh as fix as I can see acceptant from wirth others any, e.g., Aris
thelf, Pleighet are an first-state, see to the food they roquine. Genet work best under their one
people. When granne fails, Convenment, it using them sway from turns, should sayply food. The
Indian cannot is delected and disc existly. Motion. In Indian one capital for hill contriber, but in long
powracys nearly sat up their looks, if of grant, as they require faar feeding. Indian makes are neity for
draw. They are agt to tolk in their country. Durkey and abilities is vestor, that error between Indian cannot give an indian and the story, the total but include
I mound loads?

They are hardy, eat hitle, and carry I as

I'm mound loads.

11 mound loads
Colonel W A Gib Commandant
20th Madras Native Infinity

I do not see how the present system could be rifered. When our range is required, that which is precarable must be tall on. If it cannot be protected by consist at must be reputational. All lover Individual cart carriage is if the best land, but is they are slow, tents of such lover and on explosures and cannot, if nourable Miles and bagger pomes are hardy and good, but I doubt if they can be get in any large numbers.

Colonel S Edwardes Commanding 2nd Bombay Natice Infogrey As far as my expension goes there is no system of transport in India A octum amount of crimage is lept my, which is tailized to the best advantage as consisten require. On the outlined of a cone, a busspect turn is hestly organized, and gots into good working order, it is about the end of the campings, when it is blocked up 1 is got, from personal expensions in the left were in Afgh mattern.

Colonel If II Temes Commanding 10th Bounkay Nature Infa try

The present system is far from good. Livery regiment should kep up ats own carriage, and so be ready to move whatever called upor. This may be objectionable on the score of economy, but it is the only plan I how of for efficiency.

Col 7 Fa rhrother Commun l ng 22nd Bossley Nati e Ji fantry It requires letter organization, and to be made a separate department of the public service

Colonel T I Willes Commiss re General Bongal The carrye is suitable for service in Links but totably unifited for transport out of it. Camels, which were obtunable in general most read and see admently suited for weal in the plants, we field despite only and in a few verte, even where totardly plentfull, in the long, and in a few verte, even where totardly plentfull, in the

routes, with some terror source. The Purples predicts the Purples pretty newly physical and the emission for the Purples predicts. The miles have mostly dard during the NF Pull boild do in a very some Muller and possive in for the hard work the unce. I have post or curringe for the fixture for a large

army in India must be, so to speak, instantiationed in time of peace. The hither thinging go locky system of obtainable transport must be given up. The discendical of the came do norse all over the Pauly I belove to be excessive, owing to their sufferings and lower during the late war. Carts and bullecks are still obtainable in large numbers at stations below Lahore.

Colonel R A Moore Acting Commissary General Madras The system which obtains in the Mudra presidency at 6 licep up a certain number of cumels and clophoust for the carrageof tests, drueght builded for sixt certs, and dresght builded for artillery nagons. A statement showing the numbers kept up and the cost as subjumed. All other currage required is lined, and the hard earning procurrible consists of country casts and puts buildeds. The eut-to-waters will not trive service with troops unless pressed by a magnitude, and the supply of peak-builded is a dimensionly some good roads and antivarys war, under the supply of transport for a large force will always in consequence be attended with difficulty.

Statement showing the numbers and annual cost of maintaining clephaits, carels, smiles, artillery drought bullocks, seel cart bullocks, and fixed pack-bullocks for the use of troops is the Malras previence

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The - Time I red p. I believes of on it is tope farrer some time, and approximately to the place of the late of the some time, and all proved it to the place of

Locatenant Colonel M W Wil loughby Act Acting Commissary Gen

The system which obtains in the Bombay presidency may be stated to consist in leeping up a small establishment of field or moveable column carriage at most of the stations a here troops are quartered This carriage is in charge of the executive commissional officer at the

station, and is supervised by an establishment of inspectors and muceadums. It is used for trusport duty at the station or in its vicinity, and for the movement of troops on rehef under the orders of the officer commanding the district

A memorandum showing the stations at which field column carriage is muntuned, the strength of the moverble columns and of the establishment of field column carriage, is subjunted. The carriage kept up is only calculated to move a very small proportion of the troops, and in consequence on occusions of rehef of troops, carriage has to be hired to supplement the field column curriage, and at most stations it is not to be had without recourse to the civil authorities, as the owners will not bring their curriage of their own accord. Tield column carriage is composed of clophants camels make and doolie-beauers and at a few of the larger stations Maltese carts have been provided for some of the mules for station transport duty, and are found very useful. The present system is faulty. The the mines for stateout with perviously run are found by you tested in a piesent of state in the field column carriage should be reconsidered in their to contribute its organization improved, and it should be placed under the chirge of a responsible commissioned obsern assisted by one or more regimental substitutes at each large certain.

Statement showing stations at which moreable columns are bent up, strength of troops attached to each column, and the carrage and establishment authorized for the same

				Cymela loadn g public	hured	Door	TE BI	FISEIS			
Station	Corps and strongth.	Corps and strongth.						Bearers			
Poons { Ahmedungar Malegam Satara Sholapur Sholapur Rajkot Belgann Kolhapur Mbow Neemuch . Nusseembad	9 Leld guns 2 Companies, Duropean infautry 2 Mative Marie Marie 3 Marie Marie 4 Marie Marie 5 Marie Marie 7 Marie 7 Marie 7 Marie 8 Marie 8 Marie 9 Marie 9 Marie 1 Company, European Marie 1 Company Luropean Marie 1 Company, European Marie 9 Marie 1 Company, European Marie 1 Company, European Marie 1 Company, European Marie 1	} 17 2 2 4 5 11 5 2 19 8 8	196 51 51 70 111 51 82 51 370 63 41	50 13 9 48 13 39 13	13 19 111 178 83 142	1	2 2 2	96 12 12 30 24 18 60 18 54 18 141 90			
,	Total	78	1,187	185	640	4	11	651			

Colonel T H Sibley Deputy Commissary General, Bengal.

The transport in India (Bengul) at present consists roughly of about-

I -1.000 elephants II -2,000 ordnauce siege train bullocks

III -1,000 Government mules t Pindi and Pesl awar All other carriage is hired, and consists mostly of Reware comels, distributed at various stations from Peshawar to Benares, below which

station there are a few pacl bulled s Elephonts are indispensable in all campaigns in Bengal Tiey are

necessary to assist in moving heavy guis, and they are valuable as auxiliary transport with any large force The ordnance bullocle are for siege train guns, and are absolutely

For spare ungons I believe artillery officers in this campaign would

ha e preferred horses instead of bullocks The mule trains at Pindi and Peshawar (500 at each station) are myaluable

Colonel M. J. Brander Official ing Deputy Commissory-General Calentia.

The present system of transport or carriage obtaining in India should be briefly described. Divide it into wheeled carriage and baggage-

Wheeled carriage -At most stations there are cart contractors or chowdries, who undertake to furnish and so 7, 3, and 4 bullohs at fixed rates for use in the place stell; and between certain places in the neighborhood at so much per meana between places sizing. On the manner of throps to a distinct station, tiese one also undertal to to obtain carts in number proportionate to the number of days' notice given, and, as a jule, they do not fail in their engagements. But under exceptional circumstances, as a very large and sudden demand for carts, or in a disturbed state of the country,

cercumentaces, is a very large and souten comman for entry, or in a assessment of the cuil administrative would liver to be applied to Bayesse ensuale—Blephonts, cames, bulleds, mules, pones, of the property of Government, (b) Intherto hired and formshed in orderry times by camel clowderse, so a robel of troops, comps of excress, for These animals ne becoming more source more the introduction of rulerys. During the late employant the cuil antihorities had to be applied to in parts for camels, so the proparations were too harmed to admit of the choodness sending agents into the difficient districts. Motover, about Jiang and Montgomery and all about there was great reluctance on the part of owners to lire their camels for service in Alghamstan, the experience of the former campaign, forty years ago, being still a fresh tradition

Bullocks for loads -These animals are seldom or ever used in the North-Western Provinces of India or the Punjab as baggage animals, and in the recent campaign they were only to be had in provinces so remote from the scene of action, that Government had to purchase them, as their owners would not take them so far from their homes

Mules -- Except at Peshawai and Rawal Pindi, where a mule train is kept up, these are ordinarily obtainable as wanted on hire, but, as in the case of bullocks, large numbers had to be bought and

for the same reasons

Ponies —The same remarks apply

To give an opinion on the present system of the above transport, I take it, the question means, "does it answer?" The ordinary agency of chowdries or contractors for earls and baggings animals meets the ordinary requirements for moving troops in peace times, and the system of their being fur-uished to the toops through the commissional department and their accounts settled by that department works easily and well

When the pressure of war comes, and undue steam is made on the resources of the country, the civil authorities are required to assist, on account of the necessity for reaching the remoter parts of the several districts, and to overcome the reluctince of the inhabitants to hire out their animals when the several institute, and to overfrom one rendering the rendering and that the resources of the Pump's the risk and movements of war are to be encountered, and I think the resources of the Pump's were down as the resources of the Pump's were down as the resources of the Pump's were down as the resources of the Pump's were down as the resources of the Pump's several of an another than the starting of the continuation of the present special of an angle lit majorit under designed of the continuation as the continuation as subject to drive a symmem. My own is this, different as the commissant is at present, it is menable of controlling, regolving, and permit the transport in the field

Calcard J Keer, Dop by Com m san 3 General Le ver Carele Bengal.

I would greatly reduce the number of elephants, keeping them only at places where there is jungle folder, such as Barrichpore Julipgorie, Judichpore, and Sugor, and in the Central Check, Barcull and other

stations real rough to the Term, and substitute camels in their place.

As camels will not live at Dinapore, elephrats must be kept for the camp equipage of the troops

there, although there is no jungle near enough for their grazing

I don't think the present system of hiring camels by contract can be improved upon. Purchasing camels and keeping them would be too expensive. The difficulty is that when a large demand is made for service in the field, the number of camels has been so much reduced by the extension of rulways, that it is difficult to procure a large number within a reasonable time, or even to procure them at all

which is difficult to procure a large number within a reasonable time, or even to procure turn at vit. Wheeld carriage is slow, and not so convenent as sunds, but it wow appress necessary to make controlled for the supply of these, if not for the earny equipage, for the carrings at lend of the ments that and belongs, 6e, and thus reduce the demand for cannels. There should be no difficulty. I think, in getting contacts in 1 ow rite p. bulled as long as the carbonness are allowed to use their cards any extra cardinal time is to distance. The contracter being bound to report daily or weekly where the casts are each cart could have a number rad a next. branched on it.

And the halted a small be arreaded as the form of the first settings of their statuses. The

And the bullocks could be inspected at different times, as the carts returned to their stations The contractors would be bound to make these carts accompany troops wherever practicable—that is, almost

all over India, and even to Cabal

In the manner, pack bullocks, ponies, and mules could be engaged wherever there are the chief carriage of the district. This would reduce the present great demand for canols, which appear to be

above what the country is able to supply—I mean in eace of wir.

As long as the owners are allowed to use their animals in times of peace, the rate per head should not be great, but in case of their being wanted for service or to be used in the annual relief, would of course get full lure A higher rate should also be fixed for beyond the boundaries of India This would be attended with expense, but it would give the commissionat a legal right to their use At present they will secreely take service in case of an outbrook of war without impressment

I see no reason why camels should not also be bried on the same plan. Only this system would not do for moveable columns, the carrage of which must even be within two or three days nach. It would be necessary to stipulate that the eartmen and others be paid their hire by the executive officer, the contractor receiving a percentage only If paid to the contractor direct, he would be apt not to pay the cartmen

Colo el G S Machem Ben ty Com a sany Ceneral late in Com im sonat clarge of the Khyber and Kurazo l'ortes

The transport of the Bengal army, as arranged for by the commissurest department prior to the late campaign in Afghanistan, had not ever fuled

It was arranged for by the officers of the department, and menaged by them and there who dwastes—men who understood their business. The cuttle were looked after, and accounts leek up. The cattle owners had trust in the officers over them, and the system we ked well, and smoothly liwas the old custom, and that though now dended, nent a long way with the Nature Perhaps it

was never tosted so sove ely as the newer system was in the late compaign. Lut it never broke do n The system of the late campaign was inaugurated after the campaign and commenced No one understood it or what were the duties of any one Commissarint officers thought it was taken out

of then hands

Fransport officers - Colonels and ensigns who went up with the name of transport officers, bit in reality merely on that name to get somehow to the tront, distilled the work allotted them and did not know how to do it

The cattle owners were aghast at being managed by transport instead of commissanit offer

Cattle were neglected, starved, worked out died, deserted, and the system broke down

If this is the system alluded to as obtaining in India, I beg leave to say it never nill work. Nor will any system depending upon the cattle of the country a cale but under experienced officers (1 do not say commissariat officers though they, undoubtedly would be the best, if there were cough at them), who will, in the first place, have the entertaining of the cattle, and their sole care and manage ment from beginning to end

It won't do if one department supplies the carriage and another works it, -works it out, and also

for more-that won t do

But from subsequent questions to this one, I gather there is jet another system introduced—the regimental, departmental, and general division of the carriage of the army, and I must state my opinion on it in due order of questions

Colonel R. Q. Mainwaring Deputy Ass stan-General Kamptee

In my opinion, the municipance of elephants as at present obtain is a useless expense, bee use the only time when they are useful is when they alone can be used to, when troops have to cross over I ills without roads, or swampy plans, where camels, mules, or bullocks could not trivel in d Government will never go to the expense of maintaining a sufficient number for making on entire supply of them

An elephant's feed costs as much as that of five camels or eleven mules or seventeen bullocks, and his attendant's pay is nevily equal to thet of from camels ditto, or a sit might be six on service when one man would be enough to three, and an elephant only curries truce as much as a curred or four time as much as a mule or bullock, whilst he costs to purchase ten times as much as the former and about eighteen tames as much as the latter, and he requires much more food, unless in large tree jungles, and is just as hable to die

The transport establishment as at present manufamed has asswered its purpose admit ably when marching with regiments, the officers invulably expressing approbriate. The only complaints are regarding hired cattle, &c. The earls break down or the bullocks are not strong enough for the work

Lucutenant Colonel J V Hunt Deputy Ass stant Commissory General Hengal

I consider the present system to be good and suited to all requirements within il e limits of our te ritory

Its main principle is the employment of hired carriage as far as possible, instead of maintaining craringe the property of Government, such hired carriage being controlled by choudries and subordinate off order drawn from the class of carriage owners, and supervised by commissions.

I believe this system to be the most advantageous, and that under it baggige auimals are better cared for, and that more work is obtained from them

Major M A. Rowlandson Ex am ner of Comm sparsat Accounts Bomley

The present system of carr age in India provides for the use of ele phants, camels, mules, and bullocks with carts Of these, the cluplants are lept up and fed by Government, camels are pailly kept up by Government and partly hired, mules are all kept up by Government, and bullocks are partly Government properly and partly hired Of the above animals, the mules appear the most useful, being litted for either draught running, the mules appear the most useful, being little for either designed or loving. Belogistation messages to meet a grant assess but caused see least required, and I would with deference suggest that they should not lot gat as Gon-munnel sproperty, but have if a smaller, and it are present on males. Wheel carringe draw by mules or bullecks may now he used in most private of links proper and where wheel could not go mules and bullod is could be utilized for paid ever useful or of the strength of the failed courses in the two machane, as at resents

The strength of the field carriage in this presidency is at present

as follows -

Elephants 1,136 Mules 185 Camels 511 Camels hired 669 all muks. Doolic bearers

Major W Luckhardt, Deputy sertant Comm sarry General

The system which prevails at present in the Bombay presidency is that elephants, mules and urtillery bullocks are the property of Govern ment, whilst camels are a mentally supplied by contract. Any addition it carriago for the movement of troops, &c is fured at the ruling market rates and I consider that for ordinary requirements this system is the most economical one that can be decreed

Capta n J F Hobitay Deputy Ass sta et Communistry General Kandabar

Owing to the extension of rulways, cirt and camel carrige is year by year becoming scarcer and more difficult to collect, and a consider able time must be given to enable carriage for even a moderate force to be collected in any one place

No obtain carriage for a large army not only requires time but is a matter of much difficulty, and since the experience of the company just closed at will probably be more difficult than even to procure curied carriage

J H B Hallen Esq General Supern tendent, Horse Breeding Operations I behave the transport or carringe is hired, and do not think this system is good in entirety

2 Does it answer for internal and external warfare?

Leptenant-General C T Cham borla a C ST late Command ag Ondh D 12 on

It answers in the pluns of India because forage of sorts is generally plentiful and Government will not be demed anything required Camels revied in our own territories are unsuited to the barren mountainous countries of Belnel istan and evits are as much out of place

Regimental transport would be preferable, but it would be more expensive

Lentenant General W T Rughes e E Communding Surhead By means of such a system we have hitherto transported our armies but it is unsat effectory in every way. It cannot answer for external warfare if field operations are protructed

L extensant General T Forbes Command og Mhow Division Surtable for small expeditions in the country, not suitable for external warfare

Major General A. W. Mao at re on Commanding Hydershad Sub ed ary Force

Major General R. O. Brught Command og Mescut. D vissom Suitable to internal worfare, provided the means available bear due proportion to the end in view. Applicability to external worfare must depend on specific conditions of the particular service

Mayor General H. R. Browns Comma ding Sanger D street The recent experience in the Afghan campaign tends to prove that it is not well satisf the external warfare, unless supplemented by a regular transport corps

Yes, I do not think that any other system could be devised that

Mayer General J. W. Schne der e. p. Commes l. g. Northern D. u. n. on. Bombay Army would so well meet both the requirements of the troops and the local menus of supply

Tor internal wufare the existing system has answered all purposes
For external wufare hile the Abysanian Expeditionary Torce, a special

Brigad er General G Burrous Quarter-Master General Bombay Arn y transport service requires to be organized.

It answe's perfectly for internal warfare, and unless we were suddenly mivolved in an unforracen external nat—a contingency which could hardly arise—thould answe equally well for errive beyond our frontier.

Br gul er General T J Marray e n., Moeltan Brigade Hitherto it has answered for internal waifure, but the recent compages has shown how unequal it is to meeting the requirements of external warfare on a large scale

Colonel 7 A Tytler CB vc. Comman lung 4th Goorkhas Colonel J Macdonald Serretary to Go rn no t of Bombay Military No, I certainly do not think that it does for either

Department

Colonel & H. Merrey Deputy
Allutant-General Royal Artallery
is India.

Yes, for internal warfare But for external operations an organized transport service would be necessary

ın İnd a.

While it may answer for internal it octamb, does not for extends writers. In the lette, in the abeen of roads it for nubeled carrange in montaneous of states, we must whive the c mel party or mule. There has to be bought or hard of its the occasion. It all do not consider this system I as proved to be staffedory. Attention should therefore be que ally denoted to smill; I may not improving the breads of mine, on which the organization of a special trinsport service would be for such operations should be lasted. If in addition to there being no por per rodu in certain parts, there is a death of mules, coolie carrings may have to be receited to

Li culculati Colonel A. G. T. Hong Departy Quarter Vaster Geo eral Bon buy Army has, fairly well for internal martine but the urringements to be made for external warture are not much affected as a completely new organization then take place I cous der it does better than anything which can be substituted for

Lertenant Colonel H. A. Little Officests g. Deputy Assabast Quarter Marker Gen. rel

it, and if the details connected with it were fully considered and systemutized

I have already expressed my opinion in reply to question 1, that there is no system and it therefore cannot be said to answer for warfare

Magor i \ A I sinch Deputy Ass stant Quarter Master General (972)

Captarn M J King Harman Dopais Ass stant Quarter-Muster-Ce cerl.

I cutemat-Colonel R S Cle las d 9th Queen's Royal Lancers

L enternat-Colonel Lord R D Kerr Commanding 10th Hussans

The system is ill adopted, for internal waifare, and utterly unsuited for external warface

Yes, for internal marfare

The recent campugu's experience gives a negative to this question as far as external war is concerned. As for interial war as much as for external, the cuttle must shortly cease to be effec we unless retioned to a sufficient scale proportioned to the work required of them under established supervision. Besides the less of cattle entitled by short aghing pursimony in this respect the health and motive power of a force is the field is impaired and a gigantic outly, is entailed on the country to obtain inferior critic to replace those lost, at a cost which would fin exceed that required to resuc the ration necessary for the maintenance of the cattle

Locutement Colonel J C Le Quesne 12th Lancers

Les temant-Colonel G Luck 15th Hassars. Major E A. Wood 10th Hus

Captain J. A. S. Mackenzie, 9th

Colonel J A. Ruddell 1 25th

Reg ment Lucatement Colonel T Res land Commanding 1 5th Fusibers

Locatemant-Colonel A Temple man, Commandang 1 21st Fuschers

Locatemant-Colonel G P Walker Command p. 1 12th Foot.

Licutement-Colonel J S Hand, Command og 41th Regiment.

Lie term t-Colonel J W Hughes. 54th Regiment.

Lienteaunt Colonei C B Knowles, Con mond up C7th 1 epiment.

L cutenant Colonel G II Parker,

92nd Highlander Major P Stephen 4th Battalion Refin Bregade

If would Fide answer 1

For internal, I fancy, it answers fairly well, but for external warfing it is not satisfictory

It answers for internal but not for external warfare. I would see gest mule currege for the beggage of the regiment, and causels only to earry the tents in the latter case

No, not in a satisfictor; monner

It answers for internal, but not so well for external

External warfare would apparently necessitate the cubatation of other rannals for the camel and elephant-mules, bullocks, ponics-os more convenient for slapment It might enswer fairly well in ease of internal wanface

external it would depend so much on the nature of the country in which the operations were to be carried on I do not consider its organization suitable for either

My only experience is that of the muting. Then, though the troops were supplied on a scale which enabled them either to more with far celeraty or to occupy their positions for long periods with all necessit

comforts, the transport appeared always efficient Not when celerity of movement is required. Given good roads and

time, the system would answer for internal warfare

I think internal and not external

Although it may answer fairly for internal warfare, where earl wall exist, and bullock carts or camels (which, spealing generally are the trusport of the country) can be used, yet on the outbreak of a fronter war the whole system is changed, male carriage is absolutely neer and and the commissional department have neither time nor experience to ensure a sufficient, effective, or economical supply

Major Rugh P Pearson 12th

It always has answered for worf ue, all other internal or external to long as operations were confined to the plants. The recoverse of India in courage were equal to the great and so lden strain of the courage of 1507 to 1859. In the elder campagns of the Pumph and Garden fe

Supply appears to have been equal to the derivated at all times. So from I have, the transport has never broken down, except in the Afgil in emanages, and there of he the ennel, to which we much trusted, could not find the food he needed, and was averaged as utterly unerred for Moreover, he is not fitted by nature to stand the scaere cold of Alghanistan as a his Bretiin brother

The mule and the value are the proper beasts of burden for cold and mountaines a countries as ! on these we must in future rely when operating under such cond tions. Large supplies of the a most should be munitained at all stations in the P myth, where they might that the place of the camel for the service of the moverble columns, and mule breeding might either be undertal on 15, or receive ware

ence regement from the State But although for camp ugus in cold and mount moons regions our man reli noe must be placed of the mule and paison, there is no reason why the carnel should not be used for transport along the man lines of communication with our base, and with great a la intage, provided le is properly liok d after I believe that had a good thick ploof been is used for every came! I the leg many of the let

campung m at of the upuling mertality among t those useful he asts would have been purested thatter at here, a little food or noter there would have saved the left. I man a comed. But no one seemed to care whether they died or not their owners lead of all, for they received compensation,

often for in exec - of the value of the animal lost

Majnt J H Campboll 33rd Rogenent,

As well as any other that can be decised the varieties of soil and country prevent any particular mode being definitely adopted

Major J D Dyson Laur e 34th Regenerat. For internal use, where much baggage has to be evened, it amoves. For external, where communications are bad, but where baggage is limit-cell there is nothing his multi-centrage. Liceotragement of the bread of multi-central describes.

M per W H J Clarke 72ad Highlinders It answers fairly for internal warfere, but not at all for external

Major G S White 92nd High landers *

Colonel C R O Twons Commund g Royal Artillery, Meernt In external war at has broken down

Twotonent-Colonel L. Kefchen

Royal Artillery

It always has answered successfully hitherto for internal wruftned a greatdrawheel, to its extension to operations in foreign territory is the system of feating the propertors of eatile taken up for trinsport to provide food for themselves and their cattle instead of this being provided by the commission of

My experience on field service is so very slight that I think it better

not to trouble any one to read crude theoretical opinions of mine when there must be the opinions of many practically experienced men to

there must be the equations of many protecular experienced men to examine One plants, however her presented itself strongly to me when needing accounts of the lete Afghan operations and that as the great number of deaths among the causels from wind find of I molecular the posent system to be that so much is paid to the outer of a consel for the use of it, the owner burnell being responsible for its feeding. A camel causard curve are gult noted and has own food a well, and it often much be curried (growing not being procurable in miny places). Would it not be well for Government to take the responsibility of feeding the animals into its own brands, the commission of transport officer on the opportunity of the control would be visual for each would not be entry death of the control would from the hire? I have extrin tool for mends having to be carried would recessible a larger number of cumds being used with a force, that if compensation has to be paid to the owner of every cent that the subscribe the surface.

Major Bert Holart, z a. Mrly Secy to the Governor of M bras

Major H C Lowes Command I think was mg I ist Reyal Artiflery counts to the re-

Fide answer 1

I think wating till the last measure and then having uniform reconsists the resources of the country variant may registration of bests or enturges in the several distincts to rate to, whenly some estimate of white is possensible on he arrived at makes the seembling and organization of a large transport a most difficult matter and presents commandes and my reliable evidentions as to their movements

Major F T Hume Command at C C R H A les, for internal worfue

M. go. W. W. Mardock Com. maling L.A. Royal Horse Arthi lary For internal warfare see a fiber it would light for present everyone, and true-post could be made at valvide but for external variane, such as the lete emmany in Alghamston, I should rey it had not assure I consider that literations should be made as are suggested in my assure in No 7 further on

Major T. H. Hazele gg. Com maiding L 3rd Rojal Artallery I think it would, with a staff of non commissioned officers, both externally and internally. The class from which carriage is drawn are not likely to resolt.

Major the Homble A Stewart, Coundy I C Royal Herse Arthiburg I have no expensence of internal warfare. It certainly failed ag-

Major C F Norme Royal Horse Arabbert No at does not snewer, for times of eithen undrawe or person. Collected util genet day, the brugges anumls his to thicket on sweet self unit, in the plums, because fectuardely for us they require no more supervision nor food than our restuly be given by the eigenment step us utilized to but directly the sumular use placed in any unconstructed posterior of food, lovelity, or chantest, they bright down.

Major P TsizG Gallwey Royal Artiller I than it answers for interred nurther, and that hitle superioren would be secured here beyond regimental. For external nurface, however, where the work thrown on the numbers to server, and the memof subsections are inconstructed and where much larger numbers would probably be employed, as require origination.

Wager W II heble Regal Arbiller

However the present arrangements may answer for internal warfare, they certainly do not meet the requirements of a campaign across the frontier

Cast G C Bay v 13 Sth R A

Tule nomer !

Col O Wall mean 2nd B C

Tide answei 1

Colonel Hugh Co gl Com mandant 12th Bengel Cavalry Hitherto equal to internal wanfine. The lite cumpugn has proved its imidequacy to meet the contingeness of trues frontier wars on a large scale.

(974)

Capia a M G Gerard 2nd Central Indus Horse

No -With the exception of the small amount of mule or pany car ringe available, it is so indifferent, that marches are regulated not by the capabilities of infantity but by those of their baggage

The use of compressed provisions would enormously lessen transport difficulties, and allow one mule to carry as many rations as are non a load for two camels. On Cabul scale one camel carried 160 rations

with complessed provisions he would carry 640 For India no other I ind of carriage would insuer as well

Brigadier General C. 1 Godby, Coundy Pamiab Frontier Force L'entenant Colonel C LaTouche, Commandant Prous Horse

No doubt it has mewered in a sort of way in the past, and may do so in the future, by improvising on the outbreak of hestilities a trans port corps to supplement the permanent arrangements, but if a scheme could be introduced which would, without very great cast, provide for a similar expansion of transport without hurry and confusion, and which would at the same time 'urange for the requirements of organization and military discipline, I think it would be a great improvement on the existing system

I sout. Col. J. H. P. Valcolmson, Commanding 3rd S : 1 Herse Major & P Primer 9th Bengal Under the errormstances noted in answer I, I do not consider it does

Colonel T Doran Communding 27th Ponjah Nat ve Infantry

warfore

Cavalry

It has here of one, I believe, answered sufficiently for internal war fare, and if the rulways always remain in our bands, there seems nothing to apprehend as to its insufficiency south of the Jhelum Only indifferently for internal, and certainly not at all for external

Colonel H. S Obbard Com-mandant 41st Bengal Infantry

I think it does India is so large, and the circumstances of enu pargning vary so much, that every campage almost has to be specifly provided for The carrage provided for the commencement of a cam pargn should always be supplemented largely by hire, on requisition of carriage suitable for, and obtamable within, the theatre of war In most cases, such carriage might be obtained previously. Was any enderson

Colonel B Dundridge C mand og 40th Nata e infanter

made to purchase Afghan camels before the late campuga commenced As the present system does not provide at all for supervision, or for any reserve carringe, or for carringe suitable for warfare elsewhere than in the plans, it does not answer for either internal or external warfare No for the reasons given in answer 1 There should be a permanent

Colonel G W Fraser 39th Native Infautry L cutenant Colonel H Worsley Commending 7th Mainer Informs

transport department, with an officer of rank and expenence at the head For neither Wherever troops are located we require a certain amount of temport instantly in while in case of informal instarbances, where

at present it is only available at certain stations For external writare the transport maintrined is so widely dispered as to be only available at great expense. And from want of systematic organization it is ill adapted to great operations

Let itemat Colonel R J Walker Communitant 17th Antice Infantry

As far as I know, it does very well, but I have never been on feld sers tee

L'entenant Colonel R G Rogers 20th Punish Native Infantry

No, it invariably fails

or to hire them through contactors?

Leculement Colo et F B Acr man Commont ag 24th Pungab Katne lufat try

Since the present system of moverable columns has been established we have had no internal warface. All our expeditions have been become our frontier, and in hilly countries, and I think I am right in saying that the system fuled on all occasions. I however consider that it would answer fruly well in internal warfare. I don't think that the transport arrangements for any of our camps of excresse can be aid to have failed

Lacutement Colonel H St Tucker 41st Notice Infortry (lote Super stendert Transport Train 41st Natice Infantry)

Yes any of the above mentioned modes of transport can be made to answer, but proper rules and regulations thould be laid down, even to the slightest defail When the three modes of transport are united to see t each other, the transport should answer perfectly

Major Sir B P Bromhead, Bart., 10th Astive Infantry

It does not answer for internal or external warfare. Nor is it in organized as to be readily expuble of expunsion to meet the sudden and extraordinary requirements of an army about to take the field

Major 1 C W Crookel tak Co a monding 32nd Passeers.

Por internal war if a more raid is required, sufficient currings is always available from the jubin c. range in the station and the private carriage in the bazan's or can be get in a few hours

If it is a regul ir expelition or war, then a few days would be required

to collect and reput tryo them or way, must tree may a consist requires to collect and reput than the needed curry, which would be direct during the the arrangements nor in force. Considering that the view, of all rightness that he way equipment have so medified of late, there need be no supercleason of any want of currings for

enternal warfare. In the old days of mess tents and champing lunches no doubt the carriage question

presented more difficulties than now a days

presented more difficulties than now a days

For external nor as I have already suit, if time enough is given, there will never be vary scarcity
of carrage, but if the troops are moved to the theatic of user by trum, as the sale of 20 miles on hear,
of carrage, but if the troops are moved to the theatic of user by trum, as the sale of 20 miles on hear.

This can only or entrings, out it is stories by the november to the states when you can be called the control to be allowed and the campes there is not no control to be obvaried by the maintenance of large smooth of terrings, ever ready near probable settle of which is not not probable to be obvaried by the maintenance of large smooth of terrings, ever ready near probable settle of war, moving an expenditure beyond excessable hands I thank. Herefore, will everage requirements for external variance can be easily not under exciting arrangements, as they always have been under some difficult correspondences. Herefore, the control the control of ing camps, when it should be lent for departmental or general use

I might add that, under existing rules, officers are supposed to keep up carriage out of their extra brita

Major F F Roweroft, 4th Goor kha

I do not think it does Certainly not for external warefare, though it answers well enough for the movements of troops during peace time

Colonel H Bosmagon, Commund mg 4th Sells Lientonant-Colonel J. J. Boswell Commanding 2nd Sikha. Neither

I do not think it does Certainly it is a failure in external waifare In the present Afglum campaign the losses among bagginge animals can only be stributed to the defect of the system agrounce of transport officers, and refusal of those whose duty it should have been to assist camel on ners with food for their animals to do so. In my experience between Mithaul ot and Quetta in January and February 1879, no less than II) camels the property of private onners, died out of 418, while, out of the regimental establishment of 62 camels, only one died in three months. These latter were duly each for and ked, while the former were starved

Legiterant Colonel F T Barn bridge 4th Sikhs

No, for the reason given above, and when was breaks out a trans ort under the commissariat, officered as it must be from all quarters, is ill ely to cause a certain amount of friction in the department, which cannot be conductive to the walfare of the arms

Major A. G. Ross 1st Sikhs

The earrage of India answers for internal warfare

To extend water it requires organization. Even without a transport copy, the carriege of India-mules curacity, bullocks, donkeys and carts—can be worked through contractors, who should, however, be helped by Government in foreign lands when enemies, &c., mike it difficult for them to work alone. Also in special operations

Government should bein, and be prepared to pry extra to the contractors.

Tor camels, whether worked by a transport department or by contract, sets of camels should be kept at all resting phases, who should do nothing but bring in food for the camels working up and down the line of communication Camels on the march all day cannot gauze, and yet saus he fied. Moreover, all the base should be divided into stages and animals should work backwards and forwards only on their own section This applies to all animals

Colonel W A G b Communicant 25th Madras Native Infantry

It answers for internal warfare. For external warfare probably the ewrage of the country, whatever it might be might be procured. If not, the Inden carriage must be taken on notices solone

In a country like Afghanistan, for instance, camels would no doubt be the best, with is miny mules, ponies, and donkeys as could be procured Of all sorts of carriage, pomes and mules are the hardest. In Burner most moves would probably be made by water, in boats and flats towed by steamers

Colonel S Edwards Command ing 2nd Bombay Native Infantry

This want of system answers neither for internal nor external wai-

Colonel H. H. James Commanding 19th Bombay Nature (Loght)

Whenever troops move, there is more or less difficulty about currage , difficulty in getting it , bad when got discontent among owners, who are generally pressed to supply it, and the price pand usually high It answers so far, that curriage, with sufficient notice, is generally forthcoming, but there always appears to be a great stron and effort to get it, and much confusion and want of organization

Colonel J Fa throther Commanding 2°ad Bombay Native Infants; Colonel J I Willes Commissary General Bengal

No, not at first About the end of the campaign at becomes efficient

Internal fairly, external no, as proved in the late wir. Camels from the planes sociembed at once mevery column from cold, starvation, and work of clothing and incompetent attendants, and they would again it similarly employed. It believe good dolling notal hate sweed many camels, but Government declined to sanction it. The starvation would of course occur again, as there is no food for the enounous number of cumels that must recompany an army to Afghanistan It is only the British Government that rebes on camels hving in Cabul in mid-winter, the Cabalis send their camels to India for winter months.

Colonel R. A. Moore Acting Commissary General Madras

L cutement Colonel M W Will longhby Actung Comm ssary Gen eral Rambay Tide answer 1

As shown in reely to question I, the establishments must used as so small that there may be send to be no system fitted either for internal or extremely nations but the field column corrange establishments have one extra mount of organization and divergines, and if pixed on a proper footing, should become a maintain uncleast for 1 field estable is

Colonel T H Sibley Depaity Commission General Bengul ment of urmy enrange for service either in or out of Indir

The present system answers well for internal wirfure, but hard enringe is absolutely neckes in ner time beyond the frontic. The was of disturbine and histonic of any interest in the number (a chab chose belong to the drivers) render the attendants merpoble of being controlled

Coleuel M. J. Brander Officert ing Deputy Commissing-General Calcutta By internal winfrer I take it, small comprograms meant, such as the Umbeyla, Luckiu, Blieck Mountum, Bloodom. If so, I think the present system of having the trumposit critical under the commentinvestable, and it has been found, I believe, to unswer well, with the additional and of 'a few selected unifury offerers.

If by external wardines are seened inturely concepts.

If by external wardines is meant such comprenges as that in Algascata and the recent one in Afghanistan, both loing on a much large
scale, than I costed in describle that the entire transport should be
placed under a separate being of obligates, horning a transport department,
under the direct orders of the militury authorities, and entirely separate
from the economissment

Colonel J Kees Deputy Com messary Genéral Lower Circle Bengal les, I thin] it does is well is any sjelem could. I am talkeg comony into consideration. Of comes, with a larger expenditue. I make it defeater system could be devised. For instance, a large in times of cimels and mules could be bought and muler und, but the great expense of this I look on as an obstacle.

In case of external warries, some exterordinary expense would be necessary, such as supplying the camels with good phools, the direct with a blad of, &c, otherwise they could not better in a cold country. The issue of these vittless should be made before the troops in uch

Lacatement-Colonel J V Hunt, Deputy Assistant Communicary Genceal Hungal

If unsers very nell for internal waring and for such purpose needs no additional transport establishment. But as regards external warfare, it of course requires modification and enlargement, deputing upon the nature of the server and the country in which it is under taken. Do server in foreign country, larging animals my have to

along any time to the control to the

rs an engines become

I thin that such additional establishment can only be provided for when the nature of the

service is loome, but the common must be of delaying such preparation and organization until the

troops are activity to ing the field should be a valided. In the blace anyways in Algentian the

question of establishment of a trimpost trum was not settled until after movements of troops bel

commenced. And then as the oil for operations in different directions wass, loud organization again

only commenced with the march of troops.

Indian transport is combinisome, and it is an error to suppose that after its collection time need not be allowed for its organization

Major V A Bondentson From mer of Commissarist Accounts Bombay It is succeptible of much improvement for the purposes of both internal and external marlare,

Magor W I nel-bendt Deputy Ass stant Commussary General Umballa

As pointed out in my reply to question I, the present system only merts ordinary requirements, and is therefore not adapted for internal or external warfure, when the large transport required for an army in the field has to be death with

Captain T F Hablist Deputy Assistant Commissory General Langlahar If the present system of hiring carriege for the emergency would eafer for internal walface, then it may be supposed that it will be well I will up by rul. It cortainly cannot be said to move extended only for well and the control of the control

beyond the frowher algebraism, which is likely to become the large ground of finder frontier wars, semanathy mounted to camel carria, ghold not a want of the long distances (the large for large large large settled and the settled and the settled of formed, the counter. There would illuvia be not manures to so fearing in such a country, no matter what percautions were taken for the preservation of the animals.

J. H. R. Hallen, Faq. Ceneral Superintendert, Horse Brief are Oranations It answers comparatively well for times of peace, but always fails during active service

3 Do you consider the system of moveable columns to be a good one?

independent footing

Lecuterant General S r D M. Stewart, x.o.s Compt bing Southern Afghanistan bield Force Having almedy given my verse' generally on the question of transrout, I thail coeffice my remarks on this paper to such points or may not have been embodied in the correspondence released to in the murgin, and you in the Quarter. Mixer General's close. The system is sound, and cought to be maintained, but in practice is done not answer all the purposes for which the establishment is light up. Dering the five of an years I have been in command of a statuch and divisor, I have so of one from a bit to get the monemble column cuttle for purposes of mattuction and training of the troops. In my own casts the static hare always been required to meet the wants of troops moving in right or the craim of a best them the column to the contract of the training of a best them the column to the contract of the training of a best the wants of the property of the column to the contract of the training of a best the wants of the column to the contract of the countries are considerables or and for in the main.

Leutenant General C T Churs beria n car 1 late Commundung Oudh Drusson les, I do, because it is imperative to have the means of moving a body of troops lapidly

It is economical, as most of the animals used are causels, of which only so many are kept in contomicate on full line as the commissary actually require. The remainder are at graze on hulf line, subject to recall author 24 hours.

Lot stomat-General W T Hughes c.u., Commanding Sirhand Division The system would be a good one if it were properly worked. The transport entitle and their attend outs should be attended to regements, and commending officers made reprosents for entitlement and for the troops being held in readmess for unmodute mediatration. They should be frequently mached out fully equipped for service, and at the discretion of the commending office kept in comp for factical metitations.

Las tienant General J Forbes, Commanding Mhow Div sort Major Cemeral A W Macmit se On Commanding Hyderaked Subsidiary Force Yes, but it might be improved by the modification suggested in answer 16 Might, and ought to be a good one, it carried out on a practical and

Mayor General B. O Bright, Commandu y Mecrat Division

Under passent encumsiances I than 1 it probably the best. Where there is no question of era case, it would be better to keep up the same mount of carriage as transport corps which would form a nuclear capable of extension when required, and would allow or opportunities from the charge of the control of th

Major-General H. R. Erowas, Commanding Sauger District. No, I do not see that there is any advantage to compensate for the expense of maintaining them

It is a mistake to suppose that they can be ordered out and moved off it a moment's notice.

The bulk of the transport is only maintained it half intes, and re-

quines time to call in Supplies must also be arranged for if the columns are to proceed to any distance

Mayor General J W Schneder C B Comma dag Northern Dan son Bombay Army Having regard to the extension of the radway system within the past twenty years, and the general peace and quote thickers prevailed in this prevailed, during that period, the system of moveable columns would appear to be no longer necessary.

Brigal er-General G Burrons Quarter Master General, Homboy Army

I consider that 'un establishment' of elephant's and mules should be Lept up by Government, these animals not being obtainable when required, but I doubt the advantage of maintaining un establishment consisting of the ordinary critings of the country, which, as a rule, can readily be collected on occasion.

Br gather General F G Kemp ster Command up Geded Destricts Certainly, a very good system I know of no better

Be god er General T J Humay Cert
on, Monitan Hr gode graze so
quired,
such a l
soune fi

Certainly not. At most statems where they are kept up the camels grant so far from cantenments as not to be a said-like when said-selly required, that affecting the very clopet for which they are mentated it sold a betty expense. In the meant state of the country, unless at some facults attractors said-sen ownered of troops to precede load turbiness will very existing, or indeed I may up meet, be necessary, but no two of reals a contingent, saidments said-she imagent could warply be preceded leading as quarkly and generally with much less delay than that of the movestic columns. Moreover, it generally imposes that, many of the cumels were too young, and all, from boing so seldent used, are not a condition to stud had a on.

I would therefore entirely abolish the present-vision, and at frontier stations, where troops must be prepared to move at a moment's notice

^{*} In a correspondence with the Quarter Matter General

Colonel R. A Moore Acting Commissary General Madras

Leutenant Colonel M W Will loughby Acting Commissary Gen eral Bombay

Fide answer 1.

As shown in reply to question 1, the establishments municipal to so small, that there may be said to be no system fitted either for internal of external walries, but the field column errings establishments have a certain amount of organization and discipline, and if placed ear proper footing should become a valuable nucleus for field establishments. ment of army carriage for service either in or out of India

Colonel T H S blog, Deputy Commissary General Bengal

The present system answers well for internal warfare, but hind currings is absolutely useless in war time beyond the frontier of discipline and absence of any interest in the number (which do not belong to the drivers) render the attendants incapable of being controlled

Colonel M J Brander Officialmg Deputy Comm sont; General Calcutta

By internal waifue, I take it, small companyes are meant such as the Umbeyla, Lushai, Black Mountain, Bhootan If so, I think the present system of having the transport entirely under the commission practicable, and it has been found, I believe, to answer well, with the additional aid of a few selected military officers

If by external warfare is meant such campaigns as that in this. suna and the recent one in Afghrunisha, both burg on a much large scale, then I consider it describe that the entre transport should be placed under a separate hold of officers, forming a transport department under the ducet orders of the military authorities, and entroly separate from the commissariat

Calonel J Ross Departy Com musary General Lower Cucke Bengal

Yes I think it does as well is my system could. I am taking economy into consideration. Of course, with a larger expenditure more effective system could be devised. For instance, a large number of camels and mules could be bought and maintained, but the great expense of this I look on as an obstacle

In case of external variane, some extenordinary expense would be necessary, a chas supplying the camels with good shoots, the direct with a blanket, &c., otherwise they could not serve in a cold country The issue of these articles should be made before the troops much

Lecutement-Colonel J V Hent, Deputy Assistant Commissary General Bengal

It unswers very well for internal warfure, and for such purpose needs no additional transport establishment. But as regards external warfate, it of course requires modification and enlargement, depending upon the nature of the service and the country in which it is under taken Ton servon in a frongen country, briggrego-manyle my late to
be purchased, or even if hinde drunings is used, more extractive supvision is necessary, and gravier resistance must be influed to the course of carrings. Then makes
the establishment of some description of transport trans, whether separate from the commissions of

as an adjunct thereof I thunk that such additional establishment can only be provided for when the nature of the service is known but the common murtho of delying such reperties not operation and the troops are actually thing the field should be avoided. In the left empreyn in Alghenstan be question of asthlybinesis of a transport term was not satisful until the novelents of toops led

commenced And then, as the call for operations in different directions arose, local organization again only commenced with the march of troops Indian transport is cumbersome, and it is an error to suppose that after its collection time need not be allowed for its organization

Major M A. Rowlandson Fram-mer of Comm searest Accounts, Hombay

It is susceptable of much improvement for the purposes of both internal and external warfare As pointed out in my reply to question I, the present system cely meets ordining requirements, and is therefore not adapted for internal or external warfare, when the large transport required ion an army in the field has to be death with

Mayor W I sell ardt, Deputy Assistant Commis sary General,

If the present system of burng curringe for the emergency would suff co for internal warfare, then it may be supposed that it will be well lacked up by rail. It certainly cannot be and to make satisfactorily for war

Capta n T. P. Hobbay, Deputy Assetant Nandahar

beyond the frontier Afghanistra, which is likely to become the base ground of future frontier wars, is emmently unsuited to camel carriage, both on account of the long distances that have to be murched and the scarety of former all through the country. There would always be an immune loss of enaled in such country, no matter what precautions were 'tle a for the pre-

servation of the animals

J H B Halke Fig Ceneral It answers comp. Supernitendent, Horse Brooks g during active service Operations

It answers comparatively well for times of peace, but always fails

3 Do you consider the system of moveable columns to be a good one?

L cotenant-General Ser D M Stewart, M.O.B. Command: 1 g Southern Atglanustan I seld Force Having dready given my newyl generally on the question of transport, I shall confine my tennais on this paper to such points as may not have been endoubted in the correspondence referred to in the myrgin, and now in the Gautte Mixet General softice. The visition is sound, and now in the Gautte Mixet General softice. The visition is sound, and oncy in the manniand, but my pretice indees sold where all the part poses for which the establishment is keyt up. During the five or an experiment of the common of a district and divisions, have not once been able to get the moverable column cettle fast purposes of unstanton and training of the fromes. In my own case the cettle have always been required to meet the vanis of troops moving in relation the camp of Lecticant-Geyorium or other energency of similar character. With this occupion, however, the system meets in individual value of these remains however questions of and for in the main.

Lacatement-General C T Cham berlam CST late Commanding Outh D vision Yes, I do, because it is imperative to have the means of moving a body of troops rapidly

It is economical, as most of the animals used the camels, of which only so many are kept in cuntonments on full hips as the commissanata actually require. The remainder are at graze on half-hire, subject to recall authin 24 hours

Leutenant General W T Highes on Commanding School Division

The system would be a good one if it were properly worked. The transport cettle and then attendents should be attended to regreater, and commanding officers made responsible for efficiency and for the troops being beld in resolutes for immediate modulation. They should be depentedly manched out fully equipped for service, and at the discretion of the commanding officer kept in camp for tactical matruction

Lieutenant-General J Forbes, Commanding Mhow D via coYes, but it might be improved by the modification suggested in answer $16\,$

Major-General & W. Mocenture on Commanding Hyderated Subsidery Force
Major General R. O. Bright Commanding Meerat Dress on. Might, and ought to be a good one, if carried out on a priotical and independent feeting

Under present encumerances I think it modely the best. When there is no question of expense, it would be better to leap up the same amount of carriage as tumaport cups which would form a nucleus capable of extension when required, and would afford opportunities for teaching officers, one commissioned officers, and near transpot daties

Major General H R. Browne Commanding Saugor Destrict No, I do not see that there is any advantage to compensate for the expense of maintaining them

It is a mistake to suppose that they can be ordered out and moved

off at a moment's notice

The bulk of the transport is only maintained at half rates, and re-

quires time to call in Supplies must also be arranged for if the columns are to proceed to any distance

Major General J W Schne der, o n Communding Northern Division Bombay Army Having regard to the extension of the railway system within the past twenty years and the general perce and quiet that has prevailed in this presidency during that period, the system of moveable columns would uppear to be no longer necessary

Brigad er Genoral G Burrows Quarter Master-General, Scoulary Army I consider that an establishment of elephant- and mules should be kept up by Government, these nameds not being obtainable when required, but I doubt the artunings of numinating un establishment consisting of the ordering carriers of the country, which, as a rule, can readily be collected on occasion.

Brigadier General P G Fentister Commandas Coded D stricts
Brigadier General T J Murray,
our Moditon Brigade

Certainly, a very good system I know of no better.

Carbanky and the merit delatence where there is a half in this owner. Greek is from continuous as not to be a salable when soldenly required, thus delating the vary object for which they are nanutured it such a betty expense. In the present state of the country, unless at some franches it thous, sudden no ments of tops to repress level the tunances will very velous, or indeed I may as not so, be necessary, but no case of such a contingence sulfuent satisfactor startled transport could us ally be protected locally as quarkly and generally with much less delay than that of the monotone columns. Moreover, it generally impress that many of the camels are too roung, and all, from being so seidem wed, as not in a condition to stand brind work.

I would therefore enturely abolish the present system, and at frontier stations, where troops must be prepared to move at a moment's notice

^{*} In a correspondence with the Quarter Master General

(978)

and surtable transport is not readily procurable, carriage on Punish Frontier 1 orce system should be maintained

Colonel J A Tytler CB, 70, Command ng 4th Goorkhas

I consider that a certain portion of very large garrison should be told off as a more able column to be ready to more abla most an assault motion, whenever and all cover required. Every regiment in a single

Colonel J Macdonald Seey to Govt of Bonnies Midday Dept

corps station should in the same way have its own carriage ready to Yes

Colonel A. H. Murray Deputy A s stant Adjutant General, Moyal Artillery in India Colonel D Standen Assistant Adultant General British Burms

The system of move-ble columns is better than no system at all. but, as at present organized at is not efficient or satisfactory, and it is not to be compared with a proper organized system of transport for regimental, departmental, or general purposes

An admirable system, I think, if carried out in accordance with the letter of instructions as to the organization of moverble columns promulgated in G. O. No. 247, duted 13th March 1861 with especial

reference to the orders relative to each moreable column being order ed out occusionally for the purpose of exercise in order to enable com manding officers and others to become personally acquainted with the actual requirements of such columns with the airangements for their equipments, their carrage and the necessary supplies of all descriptions and to ensure the netive and intelligent co operation of all the parties concerned, whethe belonging to regiments of which the columns are composed or to departments, "employed in their equipment and march that in times of trinquility they may become so ments, religioge in the equations an ancient mass a numer to wright and property of the consistency of more, that when required to turn out under the ensident cell of duly to quell my diturbance, a very one may know his piece and elevely comprehend which he are to do and that confissed and disorder may thereby be avoided? "It is system would must undoubtedly that do increase the efficiency of the available force and to render it by feetly rendy at all times for numed the service. At functionly us and distinct sole lines received by expending product and assume on numerous sources of frontier stations, like those of lines returned and Tonghoo, in close monimity to more or less unfriendly independent State, it would be of great impostance to have small compact movemble columns, ready in all respects and stall points to more from their stations at the shortest possible notice

I catemant-Colonel A G T Hagg Deputy Quarter Master General, Deputy Qua Bombay Army

Les the system is a good one, as it enables a commander to turn out troops at short notice on occasions of emergency and in ordinary times

it is good practice for the troops to be so turned out The carrage kept up for moveable columns is available for station work under the commissar at department and for movement of troops in ordinary relief , otherwise I should consider its maintenance for move able columns alone an unnecessary expense

L cotenant Colonel H A L tile Offe at ng Deput, Ass stant Quar

I consider it way fairly met the requirements of the time when they were instituted 1 it might be advantageously now abolished as I plong ing to a past condit or of things except at a few stations removed from the line of ruly ay and at the front er stations

Mayor A A A Kindoel Deput Ass start Quarte - Master General Capta n M J K ng Harman Deputy Ass stant Quarter Master-General

Yes, excellent in theory, but not as at present carried out. Undoubtedly the system is good, but it is not properly applied, and consequently very little good is derived from it

Lecutement Colonel R. Blundell, 3rd Hussara

If the Government is not prepared to go to the expense of keep of up as fluxent currage to move all the troops in a station, I think the movemble column system is the only other alternative. Given only a hmited amount of carriage, I can suggest no better system

Lorofennut-Colonel R S Cicland 9th (Queen a Royal) Laureers

As far as my experience goes at answers well except the delay in moving, which is caused by the camels being so far away at graze

Lecuterrat Colonel Lorl R D Kerr Commandug 10th Hussers

Yes, most decidedly so, as indicating to friend or fee rilers of States within or without the empire a constant watch fulness and state of readmess to act promptly on emergency

L entenant Colonel J C LeQuesno 12th Royal Lancers

There can be no doubt the training in peace time must be of advant age in service

L entenant Colonel G Tatel. Commanding 15th Hussars

During the fourteen years I have served in India, I have never seen a moveable column panaded. Beyond seeing a sandrou of the regiment detailed monthly in ordiers as forming part of the column, the officers and men of the 15th Hussars I now nothing of the system, and probably look on it as a myth, or something appertuning to a post-generation. For my own p.rt. I happen to be aware that attempts have constantly been made in Meerut to move the column, but when called for the carrage has not been for theoming

Major J W Choples, 8th Hussars.

I consider the present system of moveable columns to be good particularly if some trained non commissioned officers and men were attached to them

Major B A Wood, 10th Heastre

No; I fruey the same amount of earnage might be kept up regimentally with greater benefit to the service, but the cost would be greater to a certain extent in times of peace and I am not sure that the moverble column is kept up as effecterly as it might be. The moveable column is mustered once a month by a field off cer

It is quite possible and very probable that the field officer in question might be perfectly unaware as to the efficient state of the animals paraded for his inspection, from having had no experience in the management of transport or bugginge animals

Captain J A S Mackenne, 9th

Yes, as a handy compact force as always ready to turn out Lanciers Colonel J A. Ruddell, 1 2wth

Yes, I think so, but I have had no expenence of the working of the

L cuterant Colonel T Rowland, Communiting 1 5th Fusifers Leestenant Colonel M MacGre gor 1 18th (The Royal Irash)

system, and regret that I can give no satisfactory replies to questions Yes, they keep up a supply of carrage for any sudden emergency

Leggbeaunt-Colonel G F Walker, Communiting I 12th Post.

Yes, if the orders regarding them are curried out, and if the troops serving near them are practised in assembling at given points within a stated time I cannot speak from personal experience of the moveable column

Lentenant-Colonel D Warren Commanding 2 14th (Prince of Wales Own) Regument. system Duning the two years the regiment was stationed in Umballa, a small force left the station as a moveable column, and I am informed that on that occasion there was no difficulty in the matter of carrage Most excellent, as, in addition to giving facility for moving small columns to threatened points, at can without extra expense be made the means of importing the necessary instructions to all grades, in organizing

small expeditions, issuing correct orders, moving in proper formation, in fact working out problems in minor tractics, thereby leaving more important tactical combinations to be dealt with at the large camps of exercise

L ratemant-Colonel J S. Hand Commonding 44th Regiment.

Yes, if properly organized and conducted

... consegnant Colonel J Hughes, 54th Regement. Letelerant-Colonel C B Knowles, Commanding 67th Regi

I think it essential that at certain points a force should be held in readmess to move at the shoriest notice, and I cannot suggest any improvement on the present moverble column

Yes, if the system is properly worked. I consider a column should assemble for three days' exercise at least once a quarter First day -March out of station to a distance not less than eight

miles, pitch cump Troops to be practised in outpost duty
Second day —Attack of a nillage or a position. The three arms to be employed

Thud day -March back to stateon Column to halt, sook, and cat one meal half-way Officer commanding to send in a report detailing shortcomings in

Yes, a most admuable one But their operations should not be

Locatemani-Colonel G H Parker, 92ad H gblanders

commissionat and transport arrangements, or suggesting improvements I think it good , but they might be oftener exercised

Mayor F Stephen, 4th Battalem Refe Brigade Mayor Hugh P Poursus, 12th Certainly not

confined, as at present, to the limit of three or four days, nor to ground within ten to lifteen miles of cantonments, which follows on the first condition I have seen the moveable column at Morar working for three consistency of the property of

aid in warfare On every occasion both officers and men took the keenest interest in the operations, and all regretted

their close I cannot spent too highly of the system when properly carned out, as I lime always seen it I may here remark that an imaginary or skeleton enemy creates no interest. Through must have

other troops opposed to them Where cantonments are within a distance which will admit of it, their moveable columns should manaurre against each other, within certain defined lateral limits, for at least three days, exclusive of

the time required to bring them in presence of each other Advintage might be taken of the much of regiments through contonments in rehel to form small

columns for menorating

The cruticous D P (cut should never be falsen out on these occasions. All that is needed are

The cruticous D. P (cut should never be falsen out on these occasions. All that is needed are

small letter d'aire (to bold four to sar men evol) to keep of ram. By this sample expedient threefortrias of the currige now employed in transporting the longage of more calls columns might either

to subjected with thoughter, or, better still, thinned to earry what would be really recessary for the

wants of a much larger morterile column.

(980)

All cooks should be left behind on such occasio is and all other followers as far as possible. Give

All follows amount me rice seeming on a cut correction is the time of more assisted as pass the Gree feed and continued patentials and all the in it is find of cuts as d cook, for him of the Cut down briggings to an immum toll of office a rud men. The Calcul scale blass simple. This is the copin intit, for each or ege that deep the amounts the followers is do finest ing I share, comed drivers & much the rough de if I have left a spaken of . Give its see it paper 0.

These are b t a fev s ggestions I entit ng that sould tend to make these annual arrange more practical to assimilate their conditions a that does of actual variance could not is I to be be usefued to all concerned.

Manor J D Dyson Lauric 34th Re, ment

The carrage of moveable col mas camels at l which I have The curringe of moveance on miss curies a fit which I have been acquiringed I as been kept at a reduced cost to Go eriment not in Holitable use but out at girac. When required the nursuls have ken untuly. The officers and men I not nothing of the important houses. of preling biggage and loading the animals

May r G K Slaw 68th Light

I have never been able to see the use of movemble columns. If an outh end should occur equing military suppression troops rould be sent out us the occusion required independent of the fact of the record ang to the mo cable column o not and t ansport would be more of

Ma o W H J Clurke 7°ml High anders

I do consider the system of moverble columns a good one that at they are page by for ned consisting of all three brunches of the service hen possible and frequently worked together by being seat out to ermy n the winter months

I sl ald also send orders to diffe ent stat ons to march the r nove able columns on to a cultim town or line. All the different columns to an nelly a fixel date and long at the place fixed upon.

I should say this voild be very gool practice.

Major G S Whe Sad Hah la dere

Good a here the sudden despatch of toops as I lely to be requiste In nme stat one out of ten ho ove the system appears to have lost to 10000 of of a in the general pacification of the country and the spread of 12 h ag≈

C pt H M L Hutch so 1 14th (Prince of Wa e Out) Reg in at-Col C B Q Frans Condg Royal A til e y Meerat D 12804

Certa alv if properly utilized for instruct on &c A tolerably useful one at a minimum of expense

Lentenari Colo el I Ketelwa Roya Art I ry M per Be to Hebert ma W1 tary S er thirt to the Gorgrens of

Mudras.

Yes if the system were really car ed out I have no doubt that moveable columns like all reserves are an ab solute necess ty as d more so not than ever as the neressing prosperity

Major H C Lever County I la R A

of the country in greather and nativer in the several property of the country in greather and nation necesses the diffe thy it. I see up trung of 1 have served at stakens where a noveme or summaries or indeed to be kept up is 1. On our recollect over seeing the country of unstread and o er tat up port many exerce so of it with stores a pples where the country of t &c packed for exe case An admi able system of carried out with Horough est

Major E T Hume Coming C C

Yes I do

R. H. A Majo W W M doch Com ms d ng DAR H A

I do not consider it to be a good one for all conta gences but I have noter seen it tried in practice

Major T M Has logg Con mand og E-Srd Roval Art I cry

Les as far as I understand it

Majo th Houble A Stewn t, Command g I to R H A Magor C. E. Na rue Royal Horse No because eve y brigade slouid be a movemble bogade in Inda

Art He ;

No it does not see re a suffe ney of transport nor can it be got togetler quiel enough fo these 1 1 d times

Nagor P J'taG Galney Loyal

I consider the p sent system requires modific ton now that communication is so yestly improved and I ould also shall more ble

columns except at the folloring statems —
No the Western Front et (con plete earrage) G value

Allal abad (for Bundellaund) Mastribad Mor

N gpur (Kamptee) Sec. vieralud

Poons Asam S wh carringe to be kept as is suitable

Lieu count 1 C Wate IIA. No 4 (II z m) Woun in Ba c Pa jab I cost er Regog

Borma Yes bt I tl k tlat there should be some efter statem of nak ing the troops form ig that column real ze the firt that for the time being they do belo g to a no ni le col nn unl as encl should hold themsel es i read ness to me e at a moment s rot ce

Annendix IV

Colonel O Wilkinson 2nd Bengal

Colonel Hugh Gough, Command ant 12th Bengal Cavairy

Brigadier General C T Godby, Comdg Panjab Frontier Force Colonel J Blar vo Com panding let Bombay Lamoure Legatement-Colonel C LaTeuche

Commandant Poors Horse

The moveable column answers in the plants, but for general service I think regimental transport would be more efficient

In the absence of a regular transport organization, movemble columns are good, innumuch as they supply a proportion of carriage on emergency at a fairly short notice

Most certainly a very good system

Yes, I do, if it were only used a little more frequently

In so far as that in a country lile India a force of a certain fixed strength should always be able to start at a moment's notice in any direction on a sudden emergency, I think the system is a good one, and essential to the multiary requirements of our position. Whether the details which form the component portions of such a system are capable of improvement is another question. In my opinion, moveable columns should only be quartered in central and important positions, due regard being had to the rulway system of the country Lach Native cavalry regiment should have its own bugginge arrangements, and there should be an organized transport service to arrange for the infantry and departmental requirements

Lent Col J H. P. Malcolmore, Commanding 3rd Suid Horse.

Major A P Palmer 9th Bengal Colonel J. Doran. Commanding 27th Punjab Native Infra try

Colonel H S Obbard Com mandant 41st Bengal Native Infan

Colonel I' Dandr dge Command ing 40th Not ve Infantry

Columni G W Prager 29th

Native Infantry

Leatenant-Colonel H Worsley

Con manding 7th Native Infantry L'entenant Colonel B J Walker Commanding 17th Rate e Info try Lacutement-Colonel R. G. Porum

20th Punish Native Infantry Lieutement-Colonel F B Acronn Communicating Sith 1 m jab Astivo

Locatement Colo of H St G To ther 41st Antiro Infantry Inte S per niendent Transport Ira a, 41st \u21bat ve infantry

Major Sir B P Bromberd Bart. 40th Native Infantry

immonce

Yes, if they were so in organization as well as in name !

Improvements me suggested in answer to question 13 I have very rarely seen them put to any practical use

Yes, I do I think it of vital importance that a certain portion of the thoops at every station should be able to turn out any minute, and move rapidly in any direction for several consecutive days

Yes if worked is it was intended that it should be Until recently, the musketry course took up the greater part of the cold serson. This cause, combined with the prucity of troops available for manusaring, and the small area of uncultivated ground over which troops might pass, has prevented in a great measure the working of the different columns

Yes, if properly and efficiently kept up, and the orders on the subject laid down in the Bengal Army Regulations be fully carried out. But if a considerable portion of the movemble column carriage, such as Rewaree camels, me at graze in the district, 20 30, and even more miles may, they would be mable to be recalled in time in a case of soulder emergency, and m such ar event the mornable column would be practically 'mimor cable ' No! It is ill adopted to the necessities of the present day Im-

proved communications have rendered unnecessary a system devised when every station was as it were the centre of a zone of operations

No, it invariably fails

Yes under the system a ceriam amount of carrage is maintained in a state of efficiency at all strategical points. The amount of carrage kept up is, however, on too small a scale

It originally miswered the purpose for which it was required, but since the introduction of the railway in India the moveable column has been much reduced, and I doubt very much whether at emtonments where the railway is contiguous enough carriage is kept up to move all the regiments at a short notice

No, I do not Its cost alone should be sufficient to condomn at I would substitute for it a system of requiental traisport, the advantages of which would, I believe, far outweigh those of movemble columns The chief would be-

let, superior economy, for earnings would only be hared when actually wanted. The cost of Leoping up these moveable columns all the year round must be

2ndly, sucroused efficiency, in two ways (a) It would be working on a small scale in time of peace, exactly as in time of war it would have to be done on a large scale, and thus not only would it accustom cril officers and their subordinates and the people of their districts (the owners of the securion and notice that a latter supercriptions and the proper of them anothers, food where or con-curringly to the return of the demands that may stony time be made upon them, but it also would give regimental officers in time of peace valuable experience in the wolling of transport arrange ments, which otherwise they could hadly obtain. And (b) it is a system capable of indefinite expursion, for, with timely notice, the civil authorities can collect a large amount of curringe as card, as a small one — The chief objection—which epponents of this sistem could urge against it is that if all movesble columns be done away with, joi might not, on an emergency be able to by your hands at once on the carrage required for mamediate action. I do not think such a contingency could ever anse It would be the duty of every commanding officer of a station to be in constant communication with the chief civil officer of the district (see question and insper 15) who would always Leop him thoroughly well informed of his resources in the nay of currage and it nould I believe, be always forthcoming when wanted However, in come instances, it might be prade too to interfere with existing managements and in a few crees I would not advocate a change. the Punjab Prontier Force always Leeps up its own carriage ready for instant use and it should continue to do so, and where mules and cleptants now form put of the moreable columns, they should be retained, for they are animals sometimes specially necessary, but not always easy obtained

Major A. C. W. Crookshank, Com manding 39sd P enters

No I do not It was suggested by the want of carriage felt during the mutury I do not think it fulfils its raison delre because-

1st —We have adopted an army organization and other arangements which should prevent a second army mutiny

2nd -Communication by rail is so extended, that troops on be

expeditiously moved from one put of the country to another Srd -We have now recepted the fact that troops can be moved on service with a more tithe of the transport formerly needed

4th —Because they are not immediately ready for service

5th -Because the system engenders a false security and a false mobility. Given that carried or — necesses the six scene engenerate it was security and a mass monanty. Over that carries as forthcoming **, regiment coght to be the to turn or for servoer an un to it turn. Lawrang particity what to take and how to pack at The spossed deftal of the troops as a routine statum order, who is generally marked at the energies lee have that the strong, and the mote can be referred to once to a punied form integrage in the burned room detailing the virous into face that the number of another than the strong and of written statuser it should samply be necessary for him to detail the number of another than the strong and of written statuser it should samply be necessary for him to detail the number of another than the strong and the strong are strong and the strong he wants, and they should be ready to start as soon as the carriage reaches them

Majer P F Rowerest 4th Goorkhas

A very good system indeed, if properly carried out

Colonel H Bourrages Command ung 4th S Lbs

Yes

ga constantena.

Loutenant Colonel T T Bam bridge 4th Sikha

I have never had any experience of any where the carriage is depend ent on the commissariat. As far as the regiments on the frontier are concerned where carriage is kept up regimentally, sufficient to move out a regiment in the lightest marching order for an expedition of three or four days at works well

Major A. G. Ress 1st Sakhs

Colonel W A G b Commanding 2-sth Madras Nat ve Infantry

As far as I know yes, if ierlly and properly worked Undoubtedly they must do good , but they can only be used in a very limited manner as regards the whole army, or the expense would

Colonel S Ed viriles Command ing 2nd Bombs) Aut to Infantry

Les, if properly organized and maintained, not as it at present exists

Colonel W Bannerman, 4th Bont

I consider the system to be a good one

b y R fles Colonel H H James Command ng 10th Bombry Native Infantry

Yes under the present rules for transport but I should much prefer to see regiments always ready with their own carriage

Colonel I Parthrotler Comman l ng 22nd Bombay A t ve Infantry

I think not, unless separated from the commissariat and under its Own staff

Colonel J I Walles Comm stary General Bengal

No-a simple waste of money

Colonel R A Moo e Acting Commeter General Madras

Move-ble columns, so calle l were introduced in 1860, but, is far as I know, they have seldom or never been murched out or exercised as a name, any may subout or never uses invested that of each value of the first time they have been ordered to be printed monthly. The moverable column appears to me to be more a part arrangement that naything else. Before the moveable columns were introduced, the cattle were kept up and were available for the use of troops just as much as they are non. And it is doubtful whether en a real emergency arising, the force sent to quell a disturbance would be the exact strength and composition of the moverble column. And if it acre not, no advantage us all is derived from the more il ecol man arrangement. The whole of the camels it a station where there is a more able column are allotted to it. And as mether camels elept airs, nor unles are procurable in this pers cheep, the cas there which contains one unless are procurable in this pers cheep, the cas there which contains cannot be replaced for a considerable time and it trumpers of the most cube relations are consequently addense complete. Moreover, the best time for exercising the more value column is the cold sersion. But not then the ordinary rel efs are taling place, and all the camels &c are detailed to proceed with the troops marching, and the moverble column 15 thus broken up

Leutenant-Colonel U. W. Will long by Acting Commissary Gen eral Bumbay Moveable columns were established as a pointeal necessity, and carrage has for many years been kept up to enable them to more out at the shortest notice to repeat situationces for Wheat the political necessity still crists I etunois say. If it does not it seems that some portion of the field column currings is infetted vary wit statuss where these as hittle or no say for it as transport and where the strongth mantamed is too small to zero any useful purpose in moving out the troops into the country for excesses or measures, and which would be bester to encontrate thus curring at the large ministry statuss. The field column carrage has certainly been found very useful in moving tensors to been a small establ showest or whether descriptions of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the same carrage has certainly been found very useful in moving the contraction of the contractio

Colonel T H Stley Deputy Commissary General Bengal

Moveable columns are doubtless very valuable, but they are very expensive

Colonel M J Brander Official ing Deputy Commissary General Calcutta Yes, they answer the required object which is to be able to move a certain portion of the troops at a station at a very short notice

Colonel J Keer Deputy Com in seary-General Lower Curcle Bengal. Yes, the currage maintained is generally speedily avuilable on any sudden one geney. Without a moreable column, the delay in procuring curringe, even for a small body of troops, would probably be very great

Col G S Visobean Depy Comy Ges I late a Comt. charge of the Khyber and Kuram Porcus L entenant Colonel J V Hunt Moveable columns are kept up at statious for political reasons and if they are necessary, the carriage to move them must also be kept

Deputy Ass stant Comm seary General Bengal.

Major W Luckhards, Deputy Assistant Commissary General Umballs The system of moreable columns as regards the commission of merely the retention of a certain amount of carringe at the disposal of the military, authorities. It is of one so necessary to keep up a certain amount of carriage and I consider the plan of familiarizing officers and men with the use of it to be good.

The field column crunge which is kept up in the Bombry presendency for moveshle columns has been gradually so reduced, that it can hardly be said to exist. The great expansion of indiver lines in Indiahas modified our perstant to a considerable extext and I am of quantiast there is no longer, the same necessity as beiner of keeping up a large transport for the numerical movement of troops

Capia n T F Hobday Deputy Assestant Commo stary General Kandahar The system of moveable columns would be of great value when it is necessary to put a small force into the field on short notice

The successivy to put a small note him one near on short notice.

The amount of carriage so kept up is the present too small to be of much value when a large face tid of the field but it is of large value strategically to be able to put a force rato the field at once on a frontier whole a memory may be expected to appear at any time

J H B Haller Esq General Supernstendent Horse Breeding Operations

I think all columns on the fronteer, and one column in every division of the army, should be moveable

4 What is the average time in which the increable columns with which you are acquainted can be got ready to move from their stations?

Legs. Gool C. T Chambe Is n e s : Inte Cound, Oudh Division In all stations in Oudh in from 24 to 36 hours, and I believe this 19 about the average time in all commands

L cutenant-General W T Rughes, c B Commanding Sa hand Dryssian The troops composing the moveable columns at Umballa and Juliuudur could partie equipped for service in a few Jours. The cattle required to move those troops could not be supplied by the commissanat in less than three days.

L outenant-General J Porbes Command og Mbow Division

Twenty four hours from each station

Major General A. W. Maem tare c.n. Commanding Hyder abed Subadiary Force

Twenty four boars, in addition to time required to cell in cettle topt in the district. It is necessary to keep clied ant, and have detilled at a distance of from 30 to 50 miles from Sautheria do a recent of grazing and forege which are not processible in the numerical neighborlood. They could be recalled in three days. During the time occupied in recalling them other arrangements would be in course of preparation.

Major-General R O Bright Command up Meerat Diversion. Provided the commission officer receives any limit of the carriage being required in 24 hours, or three days after the first intimation Lacutenant-Colonel I Ketchen, Royal Artillery

I have been acquainfed with only one moverble column and when it was ordered out, there is a great delay in bringing the camels formed. Indeed the troops provided them beging all revelop to be placed and acamels but we no camels that the beging all revelop to be breach as gauge, and had to pared the following meaning. The sensory of the expectation was thus knocked on the bend. All this occurred village, it is not to be a superior of the camely were likely to be called for some 10 days before? (In the commissional)

From the above it will be seen that I am unable to say mything about the at erage time in which moveable columns can be got ready to more from their stations

Major Bertze Hoba t R & Mily Seey to the Govr of Madres

Pide answer S.

Mayor W W Murdoch Commanding E A Royal Horse Arty

m- I cannot say in what time they could be got ready. I have never Luoun a moveable column to be got ready.

Major T M Harelings Commanding I 3rd Royal Artillery

Major the Hon'ble A Stewart,
Commanding I C Royal Horse

Campbellpore would take from 18 to 24 hours

Major C E Nume Royal House Artillery

Artillery

I have no experience in this, and no opportunity of ascertaining b it from my answer to No 5 it will be seen that it is improbible that it could be done with any great rapidity

Major F FrizG Gallway Bayal

My knowledge is limited, but I think from 4 to 6 days

Colonel O Wilkinson 2nd Bengal Cavalry

I have so seldom seen these columns exercised, that my experience is limited, but it tool four to seven days to collect the carriage necessary on the only occasions I can remember

Colonel High Gongi Com mandant 12th Bengal Cavalry I cannot say for certain as critic might be grazing far or near according to the nature of the country

Them if recto four days *e_for a column of any strength, a shorter

Bugadier General C. J. Godby Commanding Punjab Arosther

There are no move-ble columns on the factors: Every affund; regument has sufficient entrage permanently 1 of up to enable a verig at least of a segment to move in high translang order. Regiment from configuous stations are excessively brought into emp together for excesse, and are at all times vide to move from their extrems within two houss of recept of a decay, unless the canade are out grazung in the

Colonel J Blaz, v.c. Com manding 1st Bomboy Lauters district

In this case they can generally be brought in in about twelve hours.

As fat as the carriage and troops are concerned I am, sure it could

Licetenant Colonol C La Touche Commandant Poons be ready in a day the moving of it out of the station would depend on the commission at supplies.

As my regiment does not form a perion of any moveable column I am unable to really to this question.

Lact tenant-Colonel J H P Malcolmson Commanding 3rd Smd Horse

The Sard Floritar Power which may be looked on as a mortalle of the property of the property of the property of the power

carringe is weak and deficient

I have no knowledge of any others

period probably for one or two regiments

Major A P Palmer Sth Bengal Caralry The commensurat, I believe, make an agreement with contractors, whereby the latter can dans to have three days notice before collecting moveable column carrage at stations

Colonel J. Doran. Command ag 27th Punjab Native Infantry Without any previous notice or infilmation whatever, I should say from the to three days

Colonel H S Obburd Cem mandant 41st Bengal Infantry At York the great bulk of the cumels are about 16 miles from the stat on. The elephants are leg in the station, except for for months in the yea when they are sent 50 mil soft or gree Tile camels are on the further side of the Luckhur, and if there were a middle outlevel, they would all be wared off. You may 10 the, under Fronth ecromotimenes, the column could be got off within them! from hours, and it it under unitword be encounteness at would have to do with the small quantity of cirrage on the states. Much the same would occur of all stations where it to piblic curring legit is to meet a sudden congenies a silicant to leave the station. During the cold season the moveable column carriage is largely used for troops moving in relief

At Morar the supply of remnunition for the Native thoops is so short—20 tounds in pouch and 30 in the magname of Rittish regiments—that a flight to the fort for additional supply might prove a first necessity

Colonel E Dandrolge Com manding 40th Native Infantry As the movesible columns at the statens where I have been quartered has a not moved out, I cannot say. The length of time would depend entirely upon the distance (which can be ascertamed) from cantonments of the groung grounds

Colonel G W Fraser, 29th Nature Infantry I believe two days is the average time in which the moreable columns with which I have been acquainted at Pestawar, Perozepore, and the Gwahor district were supposed to be able to more from their

L cut Col R. J Wull er Com mandant 17th Native Infantij As soon as the carnage can be provided Should no previous warming have been given to the commissariat, many of the cattle would be grazing in the district, and it would take 24 hours to collect them, otherwise 8 or 10 hours would be smilicent.

I sent Colonel R G Rogers, 20th (Panyab) N I Two or three days at least

Lenteaut Colonel F B I cannot say At some statems the carnels have to go a very long the Navier Infinity which would have to be faced by the Navier Infinity and loss nothing to do with the more clience occurred trun, and loss nothing to do with the more clience occurred.

Loratement Colonel H St. G Tucker Aist Native Intent p hto Superistendent Trusport Train, Alst Vative Infantiy I cannot give a decided answer to this quest on but I believe when the movemble column is not likely to be required all the carriage is sent away to some distinct to gives so that on an emergency it would generally this rbout a week to collect the carriage together.

Major A. C. W. Crockshauk, Commanding 32nd Pioneous

This depends upon—

(a) The amount of Government eattle present in the station, in
which case a few hours would suffice

(b) How many are with regiments on the murch, these, if not temporarily replaced, would not be available at all

(c) At what distance the camels are out at graze, supposed to be within a day or two's call, but it may be anything, and indeed the camels may only exist on muster days

camels may only exist on muster days

On muster days more able columns could turn out in a few hours, but ordinarily I should say, if they wasted for all the entringe they are supposed to have, then in two or three days' tune

Major F F Rewcroft, 4th Goorkhas

The only moreable column with which I have hid any experience was the Robbiemi district one of Facelly, when Brigader General Robbie commanded the district in 1855 of 4 as I can received from the robbiem was more than sufficient for the moveable column to get revely and move off

Colourl H Bourngon Com manding 4th bilths

I have never been attached to any My regiment has frequently and always been able to start from its station for active service, or any other purpose, in a couple of hours after being ordered

Lie terrist Colonel J J Eqs well Command up 2nd Silds In Punjab frontier reguments, where permunent critic establishments are lept up, a regiment could much un comple of hous u th food for three days. Any dalay after this would be enused in bringing camels in from gruze, which semetames is not in the immediate vienity of the station.

Lientenant-Colonel P T Bain bridge 4th Sikhe

I have seen the garreen at Kohet (I ervity, 3 minuty, 1 field bettery, and I mount win tites) get ready to state with all ammanution &c., part of in an bour. This was a tanglit, when all this transport was in the station. During the day time when the namels are may graving, if would tile some three or form hours more. At Deri Vennit Khin, when the camels we lept our digiture a few mules off, it would take from its to sum three or easy to much out.

Major A G Pass 1st Sidds

During 11 years I have been but take in stations with moveable columns and I emands answer fully. Office's and men would under stand constitution and duties and be organized for moveable columns very sharp, once they formed parts of one.

Colo iel S I dwardes Com n u du g Zod Bombry svatire Infantry

The small amount of camage kept up at various stations is always ready to more but it's not organized as the transport of amoreoble column should be, nor exercised sufficiently often to test the average time of moving or its capabilities while out.

Colonel \ Bannerman 4th Boukay R flex

Twenty-four hours

Colonel H H James, Com manding 10th Bombay Aut ve (Leght) Infanity

Colonel J In the other Communities 22nd Bombay N I

Colonel J I Wiles Com missary General Bengal

L cut. Cal. R. A. Moore Acting Commissary General Madras L cutenant Colorel M. W. W. Nou, I by Act. n., Comm. ssary General Bombay

Colonel T H Sibley Deputy Comm ssary General Bengul

Colonel M. J. Brander Officert ing Deputy Commissary General Calcutta

Colonel J. Keer Deputy Com m) sa y General Lover C ele Bengal

Colonel G S Vinchern Deputy Commas 19 Gener I life in Com missar at clay of the Khyber and Lumin Forces

Colonel G. J. Dulrymple Hay Examiner of Commissional Accounts Bengal

Leutenant Colonel J. V. Hunt, Deputy Assistant Commissary G. nervi. He gal Major V. A. Rovlandson Ex

ammer Comt Acet , Bombay

Major W Luci hardt Deputy
Ass stant Commissary General

Umballa

Cupta a T F Hobday Dep ty Assistant Commissory General Kandal ar

J H B Hallen E q General Super attendent Horse Breeding Operations About 24 hours for a small force, say 2 guns 2 companies l'uropen infantry, 3 companies Waltre infantry, and est din as required the latter supplying their own carriage. If the cattle happened to be all present in cantonment, 3 or 4 hours might be saved.

I have never seen it tried

The columns coupped with such carringe as is lept up in two or three days according to the distance the annuals are at green under paragraph 2330, Bengal Army Regulations

Tide answer 3

There is no record in the Commissing General's office of the two in which the carriage allotted to the more abile columns on he get rady to move from their estations but assuming that the field column range anumals us on the spot in the station, a few hours should be sufficient as fur as the commissions department as concerned. The save days into the commissions of Dirangement and the days for Native and howest can sall by packed and ready for numedrate issue, and it would take a few hours to begin them and epic to state:

Moreable columns could generally move within 48 hours except in the rains, when camels are sent out to greater distances to graze

In 48 hours, this generally being the extreme limit of distance to which comels me allowed to go to graze. As examels for m for the most part the transport of all moveable columns, this so enchannyl the only cause of delay in the column being ready for a start of an hours notice

In from two to four days I should mention that in the cold season a large portion of the moverable column carriage and establishments are employed with troops marching on ichef, and this is a saving to the State

I should than three hours sufficient from the reaso of the conter to the monds of the tecopy, if the citile neven in the states But force now, the camely are allowed to go to graze, the eligibrant to lungs an their fooder the bearers may be on averal dates and want collecting. Per telestly, from what I have seen, the commissured officer is warned to have the causings in the lines, and then, on the order to move full forwarg, I have known a more able element with under ask hours.

This office is unable to state the average time m which moreoble entires can be pot ready to more from their stations. Under prayeryl 2527 of the Bengril Army Regulations moveable columns are required to be feet in revenues commencte movements," run pragraph 2530 and G O No 315 of 1871 require that movetble column with when executed station to grave, must be written too of the days call

From two to three days according to distance of camel and elephant grazing grounds from cantonments

I believe under a week. The eattle are not allowed to be more than three days distance from their stations

The moveable column for which carriage is lept up is so small, that I am of opinion that the necessary time to bring in the camels from graving—say twenty hours—is all that is required to get it read)

The crttle kept up for moveable columns are alloned to ge short distances from the relations for granup pupoes all culting them in from this granup ground sometimes coevoins a dish. of once 21 to 28 hours. If however a movement is expected, the general offer a want have all cattle housel kind the station and fit there is 1). For usual darke section. No delay would then occur in the starting of the columns

This depends upon the time occupied by civil officer, in collecting carriage. Again, this will depend upon the amount of carriage available

5 Do officers and men know the constitution and possible duties of the moveable column, and are they so organized as to be ready to take their places in it?

I cut must General CT Claim berlii est, Lite Communiting Outh Days con

There is no completion of two kind. Certain troops of all times are all times are all times are all times are a moment a notice. If the curring we called in an it little it the troops renden as as ordered, and more in the direction indicated without dely or confusion.

The officer placed in command exercises his judgment about arrange-

Legaterant-General W T Hoghes co., Commanding Sir had D vision The constitution of these moveable columns is notified monthly in the officer and the column and the containing read for thick service, and to fall a their places in the column. Proquest exercises as recommended by answer 3, would be of benefit to both efficers and men

L cutement-General J Porbes Communiting Mileon Division

All commissanat commissioned officers, warrant officers, and subordinates do

Myor-General A W Macint re on Commanding Hyderabad Subsidiary Porce,

Composition and details of moveable columns are published periodically in division orders for guidance of all concerned, and officers and men have done their duty satisfacturily

Major General R O Bright, on Commanding Meant Davi son. Every officer and man detailed for moveable column is duly warned for the duty, and is sliven's ready at any moment to turn out for any service it may be required

Major General H R. Browne, Commanding Souger District, The usual system is, at stations where moveable columns are maintained, to detail the several detachments composing the column in station orders, and to name the officer who is to command

Presh details are usued periodically, generally I think about every three months

Three condeavoured in this district to give the column a more perminent organization, but the changes of regimental officers are so frequent, from various causes and so few are ordinarily available, that they do not acquire much knowledge of this service.

Major General J. W. Schneader c. B. Communing Northern Division, Boundry Army The moveable columns fixed for this division are of insignificant strength and no special orders have been assued by the general officer communiting regarding them

Commanding officers of brigades and stations know their constitution, and could act on the moment

Brigad er Geseral G. Barrows Quarter Muster General, Bombay On a recent occasion the whole of the field columns in this presidency were ordered by telegraph to march out the following moining, and, with the exception of one or two mistakes, the order was satisfactorily carried out

Br gad er General F G. Kemp gter Commanding Coded Districts

The taxious arms are told off once a quarter under the command of one of the senior officers and are quite ready to take their places at a moment's notice

Brigader-Georgel T J Murray CB Machian Brigade Colonel J A Tyther Cv, VC Commanding 4th Gombi as Such has not been my experience, but the reverse

Colonel J Mardonald Secretary to Government, Bombay Military Department No I am afraed that they do not Nor do I think that they are so organized.

This question has I assume, inference to officers and men of a regularly organized transport service. As such does not exist, the presence when formed would have to ocquire a knowledge of their presence when formed would have to ocquire a knowledge of their

Colonel A. H. Murray Deputy Adjutant-General Royal Artillery in India Officers do not know the composition of the moreable column, except from the bugade orders notifying that such and such troops composed at They have no places in it, except their ordinary regimental positions.

I do not think they are sufficiently practised. To send out the troops for the more than the more than the most proper to the country, to excrees them when only and to their the opportunity of their return for excressing the twops left behind in opposing them, and other measures, would in my opinion add much to their efficiency, as also tend to the improvement and instruction in later duties of all

Londenant-Colonel A. G T Hogg Dennis Quarter Master General, Lombay Londenant-Colonel R. A. Lattle

Yes, as a rale, officers and men understand the object of the moveable columns, and are ready to move with it at short notice

Livily well, considering how hitle practical experience they have of

Offic al og Deput, Assadand Quatter Master General

Major A. A. Kinloch Deputy Assistant Quarter Master-General

As a rule, I think only in a very general way. As far as I know, there is little or no organization as regards most movemble columns

moveable columns

Capinio M. J. King Harman Deputy Assistant Quarter Master General This entirely depends upon the general commanding and his staff In early few stations do either officers or men know or care anything about the movemble column

Locutenant-Colonel JL Blum dell Sed Mussons I don't think they know anything about the moreoide columns, and they are not no organized in the ready to take their place in it. The commission of other place is it. The commission of the columns are the mount followers do know their duties with it. The list time the more able column was not here was no December less', and the officer is hird distant with the cranings were everyout them to the process might write the craning were everyout them to the process might write.

Lightenant Colonel R & Claland, Ph Lincols Yes, they do Two squadrons of the regument are detailed nordly for ulaf daty and are clarity ready to turn out. The constitutest parts of a moverble column are published in logolo

Lieutenant Colonel Lo d P W Kerr Commanding 18th Hussan

orders its possible duties are assumed to be the suppression of distinguishes in the neighbourhood of the military distinct from which the column is defaulted.

The places of officers and men would be determined by the circum stances of the case and the decision of the officer in command

Lieutenant Colonel J C Les Quessie 12th I oyal Lancers One squadron made up at the cost of the other two, is ready and experienced

Lieutenant-Colonel G Lock Commanding John Hunars Major J W Chaplin 8th

Hussara

As the officers and men in my regiment have only recently a med in India, I cannot say that they know the constitution and peault

Major B A Wood 10th Hussans

dates of a move-ble column

ii No how own they? Unless they all both officers and men lane
an advised at wires in the same during the times they are not actually
using them for them own benefit.

Captern J A S Mackenine
9th Lancers

I's they (bit Lancers) are as one of the constitution and datas of the movemble column, and are instructed so as to take their places in the when called upon

Locatement Colonel T Row land Conmanding I fell From hers In some viviance I have seen the broogs that are in form the goverhabe colo am told off on orders. I never can emphasize as to duthe, though it is generally understood that they are required to be ready to move at a memorate motive. Buyond this there is not any organic attent.

L'enterent Celenel M MacGre gor 1 18th (The Royal Insh)

I se strangt Celenel G P Waiker Communication 1 18th No. There is no moveable column at the stateon where my bettaken is quartered.

As far as my experience goes in this matter I am not aware that

Foot
Lieut Col D Wheren Coming
2 Iáth (Prince of Wales On)

any steps have as yet been taken to render officers and men neg usuled with the possible duties of a movemble column No not sufficiently

Fide answer 3

Regiment.

I entrant-folonel J S Hand
Commanding 44th Regiment.

d There are no moverable columns in Thrysimas II there were, I should hold myself requested that the officers of my regiment fit forming a part? I new the constitution \(\cdot\) or the column, and one ready to take their places in it at a moment's notice.

L entenant-Colonel J V Hughes 51th Registerst I think so, and next: saw any confusion when the column was

Lacatemant Colonel C B Knowles Communicing With Regiment

I have never been detailed for duty with a station dying colored in Lubia . In other who was attributed to us with Dangdown writes 1 are never that the Bing raiser with an econsisted of early in they are finding (British and A it of but as for it of growing that is of subscious). I never some or born I of an order on the subject, and I have notice on the subject, and I have notice on the subject, and I have notice on the subject and I have been a subject as a subject of subject.

Lieutena t-Colonel G Porker 92ml Highlanders I magune so Yes

Major P Stejles itis Rat takwa Rello Be gade. I think not Beyond being notified in district or station orders that it exists, no steps appear to be taken to casure any preparation being made for a more if required

Major F S Terry 1 25th K gs On a Bordere s.

I do not thank either officers or men are usually taught their dutes in the movemble column. A monthly detrail of the troops detrailed for the column is use the given out in grainson orders, and there the matter usually ends no far as

Major Hugh P Peuson 19th

The constitution of the moverble column appears monthly in orders (ettion), and the portions of corps to form part of the redesign in regimental orders. Both offerers and men next therefore be not mortaned on the next reved for the first, ortains of the questions. (991)

Where such columns are worked as they were at Morar, their possible duties must of necessity be known to all

Major J H Campbell, S3rd They have been organized. Regiment.

Major G K. Shaw, 68th Light Infantry

The troops composing the column are named in orders once a month, and no more is thought about it.

Major W H J Clarke, 72nd Highlanders

In my opinion officers and men do not know the constitution and possible duties of the moverble column, and they are not organized as to be ready to take their places in it. This is caused by their never having chance of learning

Major G S White, 92nd High Cupta n H M L Hetchisen 1 lith (Prince of Wales Own)

The detail of the moveable column is generally given from month to month in the order book, and officers and men ought to be ready to play their respective parts

Regiment Captaro R H Pawcett, 33rd

Officers as a rule do not know much about the constitution of, neither are they ready to take their places in, a moveable column

Col C R O Evans Commanding Royal Artillery Meanut Divin

They ought to be

I think so, as a general rule

Locaten int-Colonel I Ketchen, Royal Artillery Mayor Bertis Hobert 2.4, Mil tary Secretary to His Grace the Governor of Madras I think so, certainly.

Major E T Hume Command, ing C-t Royal Horse Artillery

Fule answer 3.

from grazing

Mujor W H Murdoch, Com-manding B A Royal Horse Artillery Major T M Hazelegg Com manding E 3rd Royal Artillery

Yes, they are always published in orders

They I now the constitution of the moveable column, but I should say are imperfectly acquainted with the duties or their places in it There is only one battery in Campbellpore A portion are told off as moveable column, and could move as soon as carriage (camels) come in

Major the Hon'ble A Stewart, Command og I C Royal Horse Artiflery

Certainly not in the moveable column to which my battery belongs There are no orders that I know of, or can accertant, and if carriage is available, I suppose it is in charge of commissariat. But as an officer commanding a battery of a move-uble column, I do not consider myself responsible, under existing regulations, for its corninge, which is of course a vital defect in the efficiency of my buttery, which itself is fit to move at a moment's notice but without carriage for tents or baggage, and without supplies as far as I know

Mysor C F Namme, Royal Horse Artillery

As a rule, no instruction on these matters is imparted, and very little is known about them

Major P Fitz G Gallwey Royal about these columns, except to the staff (perhaps), and there is no organ-

But as a certain portion of each garrison as told off to the moveable column monthly, that portion is ready to take its place at once From my experience they do not Lattle is known in garrisons

Colonel O Wilkinson 2nd Bengul Cavairy

ization as far as I am aware In my experience officers were very rarely practised with moveable

Colonel Hugh Gough, 19th Bongai Cavalry Colonel J Blass v.c. Com munding 1st Bombuy Lancurs columns There is no regular organization whatever that I am aware of

Lecaterant-Colonel C La Touche, Cummandant Foons Horse

I am quite sure they do not, for the transport is generally employed on other duties, so officers and men get no opportunity As regards my own regiment, officers and men are always ready to

Lieutenant Colonel J H P Malcolmson, Commanding Srd Sind Horso

strit at a moment's notice. The men, with baggage complete, could start within an hour of the party being told off I think not, and moreover, as I said before, the column is not thoroughly organized and so cannot be trained or exercised, which, I consider, is essentially necessary

Major A P Polmer, 9th Bengal Cavalry

There is no military organization whatever that I am aware of All ranks are ignorant of their duties

Colonel J. Domn. Communiting 27th Punjib Native Infantry Colonel H S Obbard Com manding 41st Native Infantry

Very imperfectly, I should say,

The constitution is generally published in station orders every month, and were it ordered out, the troops detailed would take their places in it readily and in perfect order. No possible duties are made known by (992)

Colonel E Dandridge, Com manding 40th Native Infantry

the station nuthorities. The column is supposed to be prepared for service of any kind.

Officers would of course know, but I doubt very much at the rec-

Colonel G W Fracer, 39th Native Infantry

Officers would of course know, but I doubt very much if the men generally know of the existence of such columns

Legitement Colonel H. Worsley Commanding 7th Matrix Infantry

The constitution is published in division, district, or station orders.

There is no further organization. Their places would depend on the nature of the emergency, and the orders assued by the other commanding would depend upon this

L enterant Colonel R J Walker, Commandant 17th Native Infuntry

No —There are but few stations and few regiments in which the arrangements are such as to drive full beacht from the possess on of a moverble column Delay and contission would arise in almost every case where due notice wis not given

Locatement Colonel R. G. Rogers, 20th Punjab Antive Infantry

N۸

It is notified in orders when the regiment forms part of the move able column and the possible duties are presumably known by all, but there is no attempt at organization

I se stenant-Colonel F B Nor man Commen dung 24th Panjab Native Infantry

As a rule the detail of troops to form the moverble column is yet leading translately in station orders. It outlik to be published mostly the toles on the subject we contained in paragraph 3350 of the Bengal Army Regulations. I am of opinion that the others of the Natire army laws a product equal taines with the constitution and possible.

L entersati Colonel H St Q Tucker 41st Native Infantry late Super stendent, Transport Trum 41st N I dutes of a noverble column, and are so organized as to be ready to take their places in it.

The move-ble column in a cuitonment is under the charge of the commissurat and as the curriage has I believe, to be paid for it bright into use by regiments I do not limit that regiments ever we thus carriage samply to teach their officers and men, consequently they have to noveline.

Major A C W Creakshank Commanding 32nd Pronects,

Generally the officers see the detail in statem orders, but I have never known the men wirned in others. I ever heard if my against two caused by it. Beyond the fact of the statem order being formally repeated in the regimental order book, I have never known any other mother false of it.

I do not see how any knowledge can be acquired of the possible

Colonel H Bossragon Com manding 4th Sikhs duties of a moveable column. These, I should say, are confined to clear may orders.

None in the corps has been attached to any moveable column, nor has the hatfailen. This system does not orbain in this force, sounder the conferce of this Lacelle vi, the Commander in their force is the essay. Be_riments on this flouture are always prepared to move at the stay possible notice whout its district, or wherever it may be required emply because it has its own require left corresponded multily with their

Lacutement Colonel I' T Ban

establishments also that of the hospital re, self supporting, madeur able plan and the best rud only one on every account and the officer and men know their duties and places As far as it obtains regimentally in the Purjab Pronter Porce, we, and each regiment and its temporal knows its own place

bridge, 4th Sikhs

Marce A G Ross 1st Sikhe

Tide maswer 4

Colonel S Edwardes Commen hog 2nd Bombay Native Infantra These being no organized trainport train, it is imposs be for the objects and men to I now the r duties or their places. Each is a gight like of I nowifely both in the commissional department and in regiment of even what may be called the redunents of trainport with instance, the most satisfied loss in the various descriptions of energy not only as to weight and mode of leading up I at as ignate their proper places in the column. I have known energie, who are sizes another used for the instances amount on, while the baggings of the net was looked on nules.

Colonel W Bounttman 4th Bounday Ruses Yes

Colonel H. H. James Command stag 10th Bembuy Native Infantry The orders are published and generally I nown They are ready to take their places, it required

Colonel J. I. Willes Comm stary General Bengal.

The ermmissariat officers and subordinates do Probably there only one officer and one or two Prit sh subordinates un station. The must become here and attent to everything. There are opheses them in the column. Regimental officers naturally I now nothing

Colonel R. A. Meare Acting Commun ary Control Madran

Lide apswer 3.

(998)

Leutement-Colonel W W Wil longisty Acting Comm wary-Gen eral, Bombay

Colonel T. H. Shley Deputy Community General Bengal

Colonel M J Brunder Official ing Depity Cemin sisty Conta I Calculia

Colonel I Keer Deputy Com m ssary General Lower Circle Beams

Colonel G S Machean Deputy Com soury Ges end late in Com in source of arguet the Electer and humm lerces.

Locatement-Colonel J. V. Huut Dep by Assistant Commissory General, Bengal

Major W Luckbardt Dy Asat Co mesory General Umbulia Capts T F Hobday Dy Asak tenmusary General Kandahar

J H B Hallen Esq General Supern tendent of Horse-Breedung Operators

acquainted exerminal? Lecuterant-Greenl C T Cham berlun cs a late Commanding Ordi Devis on

Legatement General J Forbes, Communicating Milow Deres eq. Major General A. W. Materiate Cu., Commanding Hyderalad Sub-sediany Porte.

I can only answer the so far as the establishment of field column A can only answer as P of an in the environment of need commit carrage on charge of the e measurest is concerned, the men of which understand their dulser and can it once be told off with their animals to accompany the several detachments of which the columns are composed

I do not think, as a rule that officers had sufficient offportunities of learning their duties with moveable columns

Yes The troops composing the moveable column are generally detuiled in garneon orders is outly and all they have to do is to move to the appointed place of assembly in getting their mansport from the commiseanat

At a station there is generally only a wairant officer or two, and two or three sergernts under the executive officer or sufficient to curry on the different duties such as the godown, cattle, victualling One or more of these, and no agent or two, would be ordered to go out with the troops. They know pertectly well what they have to do. The eamel chowdry sees to the d stribution of the camels, the sirdars of bearers and has mates to that of the hearers, and so on All have written distribution statements given them through the warrant or noncommissioned officer and Native agent who supervise all attangements

The comm sernat and men I now their duty with moveable columns It was my custom as an assistant commissary general, on parades of my own, to usk a man who he was and he would answer to regiment" or "cooking ports of artillery" as the case might be

Presuming this to refer to commissariet officials, all are requainted with their duties in the moveable column, but under existing rules and eistem animals are not set apart for the respective sections of work, te, carriage of anamuniton, baggage supplies and moveable column earnage ordinauly consists of elephants and camels only and the distribution of it rests with the regimental authorities

No difficulty obtains under the circumstances explained in answer 4

The column is told off in orders and men and officers would I should say be always ready to take the field, and act on such orders as they rounved

As I believe a column cannot be really moveable unless it has its transport and carrage at hand ready so I imagine only certain troops on the frontier possessing ready transport and carriage can be considered in the light of moveable. It is therefore a question whether the officers and men know the constitution and possible duties of the moveable column

How many times annually are the moveable columns with which you are

The order is that they be even used once annually

A short march out and a return march next day, with prequet duty and a field day one or both ways, is the general thing Moverible column carriage is generally addiced in moving acgiments

in relief, or moving invalids or fresh drafts from England, so as to save Government the cost of vetra carriage

The moverble columns all ded to in answer 4 were not exercised last cold season, the transport cattle attached to them having been required for troops and comp equippe on the move in consequence of the

In 1875 76 most of that for Lucknow was used with the 18th. Hussurs which went to the camp of exercise Liephants were sent there for the Imperial Assemblings in 1876 77 and every year it is more or less used for purposes other than that for which entertained Sometimes aid has been given to adjoining commands to move troops L enternat-General W. T. Hugles on, Communicating Surband Division

At present seldom owing to extension of railways

Twice a year for regular musters, evereised according to excumstances. Evereising the moveable column defuled from the Hyderabid Subsidiary Lorce at any distance from cantonment necessarily involves great meanwemence and considerable expense to Government as nearly

all the transport of the force is required for the column. The current carriage duties of the station base to be suspended, or local carriage hired to meet the necessary requirements of the force remaining in Major General R. O Bright 0.3., Commandi y Meezat Div 2000

Major General H. R. Browne Commanding Sanger District

•

Major General J W Schnester OB Communding Northern Davi son Bombay Army

Brigad er-General G Burrows, Quarter Master General Bombay Brigad er General F G Kemp ster Commanding Coded Districts

Brigad et General T J Murray o B Mooltan Brigade

Colonel J Macdonald Secretary to Government of Homkey Military Department

Colonel A H Murray Deputy Adjutant-Gene ul Royal Artiflery

m Ind a

Colonel D Standen Ass stant
Adjutant-General British Burma
Dn s on

Leaterant Colonel A. G. T. Hogg. Depay Quarter Master-General Bombay

L cutenant Colonel H A Lettle, Offic ating Deputy Assistant Quarter Master General

Major A A A K night Deputy Assistant Courter Moster-General

Capta a M J F av Hurman, Dy Astt Quarter-Master Gereral

L e terrent Colonel R Blundell 3rd Hussars

L cutrount Colonel R S Cleland

Leestenant Colonel Lord R. D Actr Commando g 10tl Hussays

9th Lancers

Licutement-Colonel J C Lo Questie 12th Royal Linuxes

Lontenant Colonel G Luck Commands a Lott Husters Maper J W Chaple Sth

Husson.
Cay to n J & S Maclenaus 9th
Lancare

I enterent Colonel T. Rowins I, Commanding 1 oth I. I ers

Commanding 1 oth 1 lers
I entenant-Colo el V. MacGregor
I 18th (Tile Royal Feel)

For various reasons the moveable column at Meerut does not appear to have been exercised for many years. The troops from that states have generally talon put in camps of exercise

In this district advantage is tylen (during the cold season) of the monthly muster of trunsport catale to assemble the columns under true.

with bigginge and animumition loaded up

And there is also an annual exercise of three to four days, if
circumstruces permit of its being carried out

The moverble columns in this division have only been exceeded once a use the present gene al officer resumed command in May 18,7 In the absence of a conside able portion of the fixed field column carrings, cannot and cute were bined to the occusion

It is left to the discretion of commanding officers

The moveable column parades every quarter, and is mustered by the officer in command. Likewise in the cold season

Only once and usually for not longer than two days, and when the carriage is used for the relief of regiments, not at all

Bit seldom, is for as I am aware I am informed that during the

last five years movemble columns have been ordered to move for execuse but once and on that occasion they marched out complete Never, as the movemble columns in that special expects, but only

with the other troops of the garrison on ordinary brigade field days

At no station in the Madris presidency of which I have I nowledge
have movemblo columns ever been moved out for the purpose of being
eversised.

With a few exceptions they us seldom exercised, but list year all the columns were ordered out simultaneously by tologram, and all times out under to the focus Once annually when the column moved into the district for two or

three days at memourised as if in the presence of the enemy. Be slat this, the general officer at his wavel inspection ordered the column to practice to more out compiled in every respect with rations for the two discounties of the two processes are more informing oven the staff wheller the column my experience but I believe at always was expected by all concerned that the would do so.

I have seen very little of any reg his excrete so of a moveable column.

Of late years I have either been at camps of exercise during the cold wenther or at stateons who e no use was made of a movemble column At Calcutta there is none

Nominally once a year, really never because the carriage is always comped in earlying out the whiefs during the cold weather.

It has provided twice since October last. Before that it had not been furned out for two or three years, or longer.

Only once to my knowledge since the regiment has been at Salket, and that was in March 1878

I have no experence of large stations, but I believe the practice to be an annual mustaining of the movemble column, when other move ments of manual de importance do not intufer.

I do not think, owing to worther that my have been yet mobilized this year, but they were sundry times list

Tide answer 3

Twice unmuelly, according to regulation

The 9th Lancers I are only once been called on since their arrival at S alket in March 1875 to take Just in a move able column. This was in March 1878

I have no recollection of ever having seen them exercised

Never

L entempt-Columb G F 'Valler Commanding 1 12th Foot With one exception (alluded to in my reply to question 3), the moveable column at Umballa was not excressed during the space of the opens

Lentenant-Colonel D Warren Consumed ng 2-14th (France of Waley Own) Regiment Once, when the movemble column of this statum warshed to a certain place under defin to orders and then in continuation of those orders retired upon contouments,—a general idea governing the whole manners.

L enternat-Colonel G W Puget Commanding Sith Reg ment L enternat-Colonel J S Hand I have never known of a moveable column being exercised

L entenant-Colonel J S Hand Commanding 44th Regunerat-Lieutemant-Colonel J W This is replied to in answer to question 4

Hughes 64th Regument

L enterant Colonel C B

Knowles Commanding 6"th Big

Once a year for three days I refer to Morar three years ago

ment.

Lectronal Colonel G H Furker Once
920d H gblanders

Partied once a quarter. I never heatd of the column being

Major F Stophen, 4th Patial on R de Brigade Major F S Terry I 25th King's

Own Borderers

In an experience of nearly twenty two years in India I have never seen them exercised practically

I have-served in Barelly and I yearled for same you a and never here the moveable columns called out, compt on one occasion in the latter place, when spread permasson to do so partially was granted in order to carry out the annual field firing on a service fooling

Major Hugh P Pearson 12th

The Morr moveable column is the only one I have seen since the order for annual exercise was issued. It mangured for three days once a year and as I have said this was all too little. The most was, however, made of the time. Usually the programme was as follows

The first day the moveshic column levided into two equal pertones marked to campts sight to ten miles obtained from each other three out properls and mivel remones services, and surveys &c. The second day the two forces manuscrared against each other, excendingly the first middle in the campt nearer entranement where remonessions were pushed forcard by The third day the movemble column attacked a position taken up by the whole of the rate of the Moure garrison covering cantenists. These enterests were review standards and spirit expert by all If my suggestion contained in this paper as to fants and bagging were adopted, movemble columns of the present constitution might be consisted three as long at the same cost or a very much larger body of through any ally take part in these useful manuscrass for a longer time than is now allowed, and at no greater enterer

Major J. H. Comphell 33rd leg ment

The column here has not been exercised once I have been in the country (15 months), as during the season in which a column would be exercised most of the troops were changing stations

Major J D Dyson Lanns 36th Regresent In ten years of Indian service, I do not recollect seeing a moveable column out for exercise

I have been quartered in two stations where increable columns are

Major G I' Shan 68th Feet.

Major W H J Clark. 72nd

H ghlanders

kept and in three years saw one of them exercised once

In some stations I have seen them sent out once in the year,

Major G S Whate 92md High

but never more!

To the best of my memory, I have but once soon a moveable column exercised.

Captain F H Favorit, 33rd

The moveable column at Bellary is paraded quarterly. It has not been exerc sed inthecto, having only been lately formed, and the troops having been on the move last old season.

Colonel P R O E and Commanding R. A. Morrut D v s or Exercised seldom or never Paraded generally once a quarter

Lordenan' Colonel I Tetchen Royal Art fler I will not say for certain but referring to the moveable column to which I have already referred, as far as I can recollect, never (from 1875 to 1877 end of both years)

Major Bert's Habart R.A. Mily Secy to the Genr of Madris.

Tide answer 3

Major F T Hume Command ing C C Royal Herse Art Berg Major W W Murdoch Comman I ing L-A Royal Horse Art Berg

Generally once a manth or twelve times annually

I have never known a moreable column ordered to match out of
emicaments or to parade

Vager T. M. Hazeleng, Commonding E. 3rd Boyal Art Hery

Burng the nine or ten years I have been in India, I have never seen or heard of a moverble column being exercised

Magor C E Naume, Royal Horse Artillery

During three and a half years I have been at Sinlkot the moretile column has been once exercised. One other year it was ordered out but was prevented by run

During the test of my service in India, I have never l'noun a moreable column sent out

Major P FitzG Gallwey Royal Artiflery

I have been years at stations, and never saw them exercised once nor were they. The only times I have ever seen them turned one were standard the change the command of the lade General Sn. H. Orabe on, v. o. R. A., and on these occasions they showed the necessity those was for more markete.

Leentenant Colonel B. C. Wace B.L. No. 4 Hazara Mountain But tory Panyub Frontier Porce

for more practice

I was stritoned at Rawal Pindi from November 1873 to August
1875 with a field battery, but never once, so far as I can remember, saw
the movemble column exercised

Colonel O Walkinson 2nd Ben gal Cavalry I do not remember Many years have chapsed since I saw a moveable column exercised

Colonel Hugh Gongl Command ant 12th Bengel Cavaley From my experience I have found that moveable columns as a rule, are excremed at the disaction of officers commanding brights or

Colonel J Bla 7 v c Command ing 1st Bomboy Loncers

Leontenant Colonel J H P Mulcolumon Command ng 3rd

Sand Horse

stations, at some places once a month at others at irregular periods

I have never seen this carried out unnually

The Sand Fronter Poice the only force with which I am acquainful has not been so excreted for upwards of some years but then it may be agreed that it is not actually designated a more tible column.

The marginans of Reneal Army Reconstructs recognity 2508 ass

Major A. P Palmer 9th Bengal Cavalry

The provisions of Bongel Army Regulations paragraph 2328 are as fair as my experience (2.2) carly goes, puristently evaded by officer commanding statons, with very few exceptions.

I cannot recall any occasion within the last twelve years on whea a

Colonel J Doran Commanding 27th Panjab Not re Infantry

movemble column has been actually execused though the cuttle may have been culled in and collected for the purpose At Morar the movemble column is merer moved out as such. In

Colonel H. S. Obbard. Command ant 41st Native Infantry At Morar the moveable column is more moved out as such Inhea, once in the jura de moted time in Edward, or Alvob, when the public curings is brought in for improcess (camois are brought in for improcess (camois are brought in for muster every month), the troops use sent out in parties for field manneavies, over which the highest gertaal consorting register. The memorares occupy two days, and that is all the presidual of stricture would fait year.

Celonel E Bandr dge Command ing 40th Native Infantry • Colonel G W Praser 39th Native Infantry Not at all

During the whole period of my service of upwards of 36 years, I have never been called out with a moveable column for exercise

The only occuron I can cell to mand where such column was need out as as for as I can non remeable as the Gowline destroit the communided by Myrot General Vaughun on, who novel out has olimn or a potton of it from Morry B It I believe he was informed that he do gam without previous sendant from head questions he said to head previously responsible for the difference of it red the wastern of its red that the column near we not not a grant of the difference of it red that the column near we not not any such that I can incombine

Once at most

L entenant-Colonel H Worsley Commanding "th hadres Infantry L cutenant-Colonel R. J Walker Commandant 17th Autice Infantry

Once a year

I many places note: in others one on twice imperifelly and with contract of the many places note: in others one on twice imperifelly and with outsupervision.

| In many places note: in others one on twice imperifelly and with outsupervision. | In the place of the p

Loutenant Colonel F B Assunan Communication 4th Punjah Nat e Infantry

Once a year the column went out for three days I at I have been to statums where advantage was taken of the critic coming in to be mustered to praide the troops composing the column with the carrier laden recording to regulation

Hent Col H St C Tucker 41st N I laie Sapht Transport Tra u 41st N I To the best of my recollection not once within the list 10 or 12 years

Though detailed for many more able columns. I have never once been

Major L.C.W. Creekshank, Commandu g 32nd Pencers Major L. P. Roncroft 4th Goorkhan

called out, nor have I ever seen one called out

The Rohikand moreable column was in 1803-64 as far as I recollect eversed tirche times annually, i.e., once a month

Colonel H Bostogen Command ing 4th Sikhs1:12 my replies to questions 3 4 and 5 is regards moveable columns. All corps in this force, when possible go out aim. It into their districts for the test of fortingith a principle—a very good training for men and animals, and costing it of State nothing.

Locatement Colonel J J Buswell Command og 2nd Sali »

Punjub frontien regiments usually move out once a year

Colonel S Edwardes Communical mg and Bombry Anime Infants

During my service I remember only one occasion on which the moveable column of the station was exercised, and that was last year at inevenue contain at the standard was therefore, that dad was the year to belgrum. The column, which was apposed to be complete in tents, ammunition, and begginge, was marked 5 miles out of continument and back agun. No attempt was made to exception whether the force was really capable of taking the field which could be tested only by sending the column out three or four marches

Colonel W Bannerman 4th Borntay Rulles

They are not regularly exercised. On a recent occasion all field columns in this presidency were ordered out by telegraph, and moved the fellowms morning

Colonel H. H. James, Command-ing 10th Bombay Native Infants; Colonel J Farbrother Commented og 22nd Bomboy N I Once or twice a year

Fide answer 3

I have never seen them exercised

Colonel J I Willer Commissary Never more than once a year, with reference to the orders of Gov-General Bengul ernment in Military Department No 619, dated 14th November 1874, which I have not at hand to refer to, I ut believe modified the orders of puragraph 2328, Bengal Army Regulations

Colonel R. A. Moure Acting Commissary General, Madras

Colonel T H. Sabley Deputy Commissary General Bengal.

I believe the movemble column seldom went out oftener than ones a

Colonel W. J. Brander Offerst ing Deputy Commissory General Calentia. Colonel J Reer Deputy Com m stary General Lower Circle Bengal

I have only uctually seen the moreable columns everused at two places 11., at Peshawu under the lite Major General O'Grady Haly, CB in 1861, and at Riwal Pindi under Major General Sir P Lumsden, дов, &с, in 1878 от 1874

Colonel G S Masseum Deputy Communary Ge and late a Com in transit clurge of the Khyber and Kuram Forces

I um acquainted with the moveable columns at Saugor, Peshawu, and Bareilly At the two former stations, they, or part of them, were employed occasionally in the cold weather for one day or part of a day, but never taken out to any distance in the district I was Assistant Commissary-General at Sangor for four years, and the movemble column marched out three or four times a year

Colored G J Dalrymple Har Erromaner of Commisserent Ac counts Bengal

Lucknow it has been seldom These me the only sixtions I have served m with moverble columns attached In p. magraph 2328 of the Bengal Army Regulations "each move-able column is to be occasionally ordered out for the purposes of exererse' but in Military Department letter No 617, dated 11th November 1874, addressed to the Quarter Mus'es General, the movement into the neighbouring district of the troops composing moverble columns for three

Leceicuant Colonel J V Hunt, Deputy tenstant Commissary General bragal

or four days in each year, for pulposes of exercise in the manner sug-gested by His Excellency the Commander in Chief, was structured About once a quarter und during the marching season only

Major W. La Lluvelt, Dopy Asst. Comj. Gtal. Leokallo

I have never seen it exercised, but the animals are worked during the relief scason, and employed on station duties

Capta u T F Hobday Deputy Assl. Comy Gent Randahar Generally not oftener than once a year, partly for the reason that there is some extra expense connected with bringing the animals way from then grazing ground and giving them rations, and with having to pry cultivators compensation for destruction of crops

As it is manifestly impossible to Leep up an enormous transport establishment in time of peace for the whole umy, can you suggest in detail what the framework should be both in personnel and wateriel for the various parts of India-

(a) officers ! (b) nature and position of subordinates?
(c) men (European and Native)?
(d) pay and poisson?
(e) clothing?

(g) description of transport suitable, wheeled, pack, coolie, &c?

(h) animals to be employed? i) nature of carts and harness? (j) nature of pack-saddles?

Leut Genk. C T Class berlan Ger I te Comde Godh Dr w on

It is impossible to give details without carefully considering the subject in all its kennings, but I should draft officer, and men (a & c) from regiments as supervisors, because discipline and intelligence hims absolute essentials for success, careful selection would be necessary (b) Subordinates should be of three kinds

(1) Officers to have charge of lengths of line of communication which they would be responsible (2) Non-commissioned officers to have sections of these lengths of line of communication which

they would be responsible for to then officer (3) Men to have charge of stations where the transport cattle are kept and furnish escorts for the

(c) Other Europeans I would not use I should sooner have Native or caseers than European waterant officers, as the English officer would continually be up and down the length of his best

(d) Much as in the army in war time

but the drivers to be specially elothed (/) According to localities, but all should have Native swords

(g) According to the locality (h) All available

Of the simplest kind, easily repairable and interchangeable

(i) Such as used in the Punjab Frontier Poice regiments Consucrable relief to the State might be secured by requiring officers to Leep up mule or per carriage and small tents, so as to be able to move suddenly without indenting upon the moreable column carriage, as they at present have to do

To secure such supply they should be required to show up at master in the manner that charges

There may be some grambling, but the receipt of tentage makes the plan feasible and fair, and polo ponies would be the representatives in 99 cases out of 100

Leentenant Goul W T Hughes on Commanding Schund D vision.

In those parts of India in which it is considered necessary that troops should be so organized as to be capable of rapid mobilization for war, I would keep certuin divisions or brigades fully equipped for field service eamp equipage of the lightest description and marching establishments of the smallest consistent with efficiency I would attrib to each regi

ment and battery the crits and transport citils required to nove a wing or a hell battery with the commissions supplies. The transport stills required to nove a wing or a hell battery with its commissions supplies. The transport should be phond in charge of a selected officer of the regunst or battery, with a non-commissioned offers' party under him , under communiting officers, should be light responsible for efficiency in every respect. The wings and half latteries named should be in a condition to take the field at the shortest notice, and on their doing so, commanding officers should indent on the reserve at brighte head quarters for the transport critile required to mobilize the other wing and hulf-battery

These brighde reserves should contain a sufficient number of purchased animals to replace casualtes In the segment and battery transport, and should be so organized that the excentive officer in clarge should be able to collect quarkly from the distinct, with the laple of the cert almenters, the transport actic previously selected of more red, sufficient for the vente of all regiments and departments attick of to the brigade Commanding officers and heads of departments should countaring all reaching the contractions. All should be under to the rest content of the other commanding the division.

(a) At divisional head-quarters the heads of the commissariat and transport departments and their assistants at brigide head quarters. The executive officers of brigides, of each department, each with

a staff of Butish non-commissioned officers and Native subordinates

(b) At regimental and battery head-quarters a Native subordinate to be under the orders of the officer in charge of the transport heads of deputments and their assistants and ever itive officer to be of the commissioned grades subordinates to be taken from the non-commissioned runts of the British army and Natives

(c) Set answer above
(d) As at present
(e) Staff and plans departmental uniform

(f) British officers and non-commissioned officers as at present. Native subordinates and followers to be nimed with swords (tulware)

(q) That in general use in the country in which operations are carried on

Where field artillery wagons can be taken, light and strong baggage carts not overlaided can follow In mount mous countries these casts should be drawn by mules or yaboos, and in the plants orm

would serve for drought

No camels of the plans should be tal en within the Afgiran passes

(b) Those gener II, used for transport in the country in which operations are carried on

Bigginge carts and harness of the American pattern, or any improvement thereon (j) Those in use will Punjab mountain batteries

Lieut Ceni J Forkes Coundy Major Goal A. W. Mac state on Con. lg. Haderahad Subsult any Porc

I cannot answer this in detail, but the exiting field column carrage nould form a good framework on which to worl out the necessus true port for war Given the strength of the force and the proportion that should 1.

beld in readiness for immediate movement, its of he description times should be to be employed, then the frameword might be driven up the framework could only have reference to the part of India. The visious ports of India embrica so wide a diversity of climati and encountered that a scheme of universal applicability throughout the country would be unadvisible, not to say in

pretentible. As for it to Madris presidency in concerned, the nucleus of the transport must consider of these descriptions of either which is under some of these descriptions of either which is indicated in these descriptions of either which is indicated in the consideration of these descriptions of either which is indicated in the consideration of these determined to be essential most distances, such as displants, causels, and make. The number of these determined to be essential most

always be kept up to the full strength, being supplemented, as occasion requires by the descriptions that can be collected in the neighbourhood where local resources are sufficiently closure to meet probable requirements in the natural course of supply and demand. A scientific organization appears metalled for, there being no adequate field for its operation, and consequently no return to the State for the expenses to be meured in its maintenance Centracts for hired transport during time of peace might sopulate for increased supply up to a given maximum, subject to reasonable notice, such as the exist-ing contact for pack believes as under. The present pack bulleck controlor supulates for a maximum establishment of 1,046 bullocks and a minimum of 337, that is the contractor cannot be called to upon to mpply more than the former or less than the latter number, except under the following special condutions, is a 100 additional to this above on ten days notice, 500 further additional on a second ten days notice of discharge Maximum of the whole days notice of discharge Maximum of the whole days notice of discharge. 2,246 bullocks, charge per bullock Rs 3 8

Mayor General B. O. Bright, and Commanding Mearnt Dennica.

I think the most practical information on this beau would be offered the composition and organization of the urmy service corps in England It was formed by most competent officers in England after a careful study of the different systems prevailing in the Continental armies and after the requisite modifications were adopted. It would

doubtless require modification to suit the requirements of this country but, from the experience gained in the Abissiman and late Afghan campaigns, this should not be a work of difficulty. It would give an user any settinan user are any some analysis of secondar more of a voice of uncounty. As would give a frameword for the composition of a corps as regards officers subordinates ray, peason, clotheng equipment, and times. The corps should be composed of both Europeans and Natives the former and such of the latter as are taken from the army employed as non commissioned officers.

(g) This must clearly and entirely depend on the country in which the operations are being carried. In the plants of India camels and carts would naturally be used, in mountainous countries pack.

animals would be best

(a) For mountainous countries the transport should be composed as much as possible of mules and somes for the first line. As the lines of communication in rear become improved, camels, and even wheeled carrage, might be used.

(i) In the plans, the country backery answers its purpose. In the hills, where wheeled traffic

could be used at all, hight two wi celed carts, strong, country made hurness for mules, rope traces

(4) There is an excellent pattern in use in the Rawal Pholi division where a considerable mule train is kept up It was fixed upon eleven years ago, and has been in use over since

Mayor General H. R. Browne, I do not advocate the formation of a transport establishment Commanding Saugor District. Unless the transport is actually maintained and in constant use neither the officers nor men of such a department could gain any useful experience

Inhan transport in all purie somests of country carts, elephants, camels, bullocks, and doches with beavers for hospital purposes. No training could be given to equal that of the Native mahouts, drivers, and shalars under the direction of their socustomed chowdries, penadars, and mates

Brigadier-General G. Burrows, Quarter Master-Greeral, Bernhay

I consider that the circumstances of India do not require the maintenance of any transport establishment in time of peace. As stated in reply to guestion No 3, I am of common that a certain number of elephants and mules should be kept because there might be occasions when the services of the former mimals would be indispensably necessary.

and on all service mules are extremely valuable and neither elephants nor mules are obtainable locally Beyond this, the resources of the country will always prove sufficient, provided prompt measures are taken to organize and get into working order the carriage as it is collected at the base of operations

Brigad er-General P G Kemp-ster, Commanding Coded Districts

Would suggest that skeleton depôts of transport be adopted Headquesters of each depot to be stationed at large military centres, having detachments at smaller stations. Each depot to consist of military train wagons (horse and bullock), camels, pack mules, bullocks
(a) The peace establishment to consist of wagons and harness

Camels as now maintained for moveable columns

tention is now ammunitation transportant seasons. Males \$5 per each of war establishment and full peak equipment.

Males \$5 per each of war establishment to be headman of insurance for 25 per each of builledes required to the period of the

to observations are not commissioned as a second to the contract of errors to each 100 annuals

(d) Pay and penson as now drawn by Native cavalry,

(c) Clothing as now in use with Native cavalry,

(f) Arms—Smiler carbine, short sword

(2) Carts, four wheeled, not English war pattern it is said the American military wagon is light carries great lord, and is suitable to rough country

Certing great prote, and is scalars to large trains;
(i) See (g) there
(j) Peci suddles for mules sume as in use with Peshawar mule train Colonel J. A. Tytler e s v c Command ng 4th Gowlhas The framework for peace should be us follows -

(a) I rould suggest that at the head queries of each drussen or distract there should be an effect of the rank off ski officer, whose duty it would be to look after the whole of the trumport of their drussen or distract, and he is nevery vary recognisable for it. He should went at unarrant times the different out-dutions for the purpose of inspecting all carriers, opportung to the officer commanding the drussen or distract and brungung to he notice anything that he may consider requiring he orders

(b) In each stat on there sho ld be a really steady il bel aved non comm one loffeer (Duropean) either alo so rial ery man or a dragoon one vior le nell and is nell equi uted in h the re nacular who should be respons ble for the curridge in that that on There might be to conass stants at the lie d quarters

(c) The men slo d he not es smart and to store thy men selected from the Natio constr reg ments a cert. a number a each s atom to act as a s tants to the abo e each man to ha en cert. number of trasport an mals and der ers u der I sich ge

(A) Their ray to be a little I giver than they ould rece or ith their regiments. Their pennous to be the same as their regimental compales.

() I would have all the men of the traspot corps both Biropeans ad hat es dressed as good loose serrocable khak unifo m. The officers ad non common somel officers (Br t sh) to r canvas ga ters I ke those worn by the officers and men of the mount in bitte is The Nat e to werr p these rith minimum on hoots and spin s. They should lise year some listing using b dee to show il t they belong to the tran port

(f) I tolt L'uopean non commissioned afficer should I two a good s ord and re of er pistoland

a pair of b nocula s and each Native a swo d and b eeel looking earl ne

They should be Il well mounted on good pones a til Go erament saddles &c (s) T is would of course depend on t e n tu e of the country P el transpot o ld n most cases be the most seful

(7) As a general tule mules are the best carrage capecally a hilly o stony countries. C m is require more food and more care is to when they can procure plenty of the former they are no doubt very serviceable scar ying ad vid by much more thin reales or nones. These Little is egood but unless gelt they are up to be troublesome and are not so hardy as me es

() Thus is a m. ther n which I have hed very lette experience definition of the force of the tog.

an op n on

(1) The best pick saddles are is fir as I remember those used by the mount a bittenes Notil ng certa nly could be better for en ying ammunition if in the is

Co i J Mardo ali S re-try to Go ramon Bomby
Mil sy Don are provided by a de tr ge would be sufferent of the need

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As also estated (* A) the exa of the troops in Inda Certain portions of this currige would be placed in regimental charge. For these the qua terrorister of the regiment with the men in charge of the m male roul? Le a s the ent establishment. But if Government are prepared to meet the expe se of a transport tr n establement offeers should be transed for the duty D ong people the commissa at officers of drusons ould look after the an units and the follogest charge of them. On an emy cops to mg the field a st. ff of the folloging strength would probably be for as requisite and to ensure the r being thoroughly efficient they should go through a course of tra nive

(a) For me army corps of 3 to a divisions

l d rector n ch ef with 9 se stant l rectors and an office establ shurent For a d viso of 2 to 4 l ngades—

1 d rector

I ass st ut d tto

Office est bus une t for a brigade of o to 4 reg ments-

l a stant d rector

arrent offer

For la ge convoys convey ng pre usons ordnance or med cal stores u d rector should be placed nich ige inthe ce tain number of as thit directors and aim toffee a recording to the numb a carrier has been an intermed as a refer to covers and arrest to one as sometiment and one is employed. Is 0 making it be consided as a suffer in it age for mass of an interference of the conduction of the followers and could be up the recognition of its discount to the conduction of the followers and could be up to be recognited it is do so

(6) and (c) The subord nates si oul I cons st of-

warmat officers sergeants or farr ers hardles blses mucca l uns n lb inds dn ers moch es

(d) The men should be prid and pensioned at the same rate given to end sted I sears
 (e) The clothing to be similar to that assect to tent the cars list of a different color (ed). The

men should rece et le seme ame si of same dulin ge sm y le sead to be troops (f) A seed val y side that le result for curry ag food no bil be sufferent (g) a d (f) Nele t es of tiece stry, to be tree sed no bil e bette you he. If roof is y good nears bilt earth also bil e brug by used but noter ny curr me anous clopk ants cam be made

and jones (moe) riel rivilet o litte) void be the most con en ent () If c rts e sed the orluny county c rts ed n Bomlay would for d very u fol Some Multe e putter c rts bruss by mule that decodenary is ruces no generally in use re re. s

(j) The Bengal pattern paid addles I believe considered the lest

Go A. H \unit Drp 5 I would recommend in the event of rmy corps tengested as nt G n P Act 17 nee | rmport on of b gade being lept up to [ils rength of proportion of b gade being lept up to fills rength at an

From I a ld propose 1 to 1.4 ad of true port—

1 — Pe m weak or 6 overament to sport, the led in full strength to certa a brigal $H \sim 1s$ be c but of les strength rated d to be gades and to form a nucl as for expose or

when req r 1 III—Co test term past a slabble locally subject to ser on hem required to be rate and f fondnet en y lya milifee

IV —Trusport obtained by hire, impressment or compulsory if found necessity

(a) Officers in sufficient numbers should be placed in charge of the permanent transport establishments, to be composed of a commanding officer and assistant for each district. A selected commanding officer for brigades where their transport is kept up to full strength. A regimental officer for regiments A non commissioned officer for batteries

These should be chuged, so as to ensure to all ranks a knowledge of their duties as transport officers. On the march officers should be told off specially under regurential arrangements, and they should be practised under the several communding officers in change as with a force in the field

(b) A certain number of non commissioned officers should be employed under the officers commanding the transport of the district or curps, and, in case of regiments or butteries, be placed in charge of durisons, other by troops, companies, wings, or betterres, under regimental officers in charge, being changed periodically to ensure a sufficient number of all ranks being acquirinted with transport

(c) A certum number of steady men should blewase be selected and instructed under the non-

commissioned officers. Natives should be permanent, and be selected for special knowledge, too

(4) I would give working pay while employed to all. No presson, except to Natives, is required, unless a permanent transport corps is established, and which perhaps is not suited to India Ordinary pensions to Natives will suffice

(c) Regimental, with a badge (T) round arm, usual badges of rank for the non-commissioned

officers Transport other than regimental to have one uniform dress, khala serge, with distinguishing badges, such as O T (Ordnance Transport), H I (Hospital Transport) &co

(f) Sale arms (swords) and revolvers
(g) Depends entirely on the country, internal or ordernal warfare

For internal

N decled with mule and bulkesk drangint elephants and camels For the frontier stations in view to be available for external warfare beyond the frontier, as in foregoing, but with a far larger proportion of mules

i) Carts should be two wheeled, as used in Abyssium, with ordinary single harness (f) I am in fivor of Olago pattern for baggage ordinary sinie Native pails for ordinary stores animumition. A committe (held at Simila last year) I believe determined upon a good Native pail and asymmetree with shings but I am given to understand the object was deleated with some portion of the Kandahar force, owing to the contractors in some cases containing to supply the principal part of the pad, which all Natives use, and which prevents the back from being injured

Leestment Colonel A G T Hogg Reporty Quarter Master Genoral Bunksty

It would of course greatly facultate the organization of transport in time of war if such framework was maintained in time of peace, but the cast of this framework, efficiently provided would be considerable and unless well put together and Lept in a high state of efficiency, it would be of little use as a nucleus for transport organization in time of war

To report in detail on this matter would take much time and consideration. However, I submit a rough outline scheme A transport depôt to be formed at the head-quarters of each division, to be directly under the general officer commanding, who would issue orders through the quarter-mastergeneral s department.

These depôts would ensure there being at hand in the outset of a campagn a few officers and a number of men trained and familiar with the various descriptions of animals and requirements of transport
The organization of the depôts to be strictly mulitary

(c) For each depot one officer captum or subaltern (b) Non commissioned officers or pervates from Nature regiments in the proportion of one to every lift, drivers

(c) Native drivers, one to each elephant, one to every 4 camels, one to every 2 miles, one to every 2 bullocks

 (3) As Government may determine
 (4) Each driver should have a suit of uniform loosely made, so that under clothing might be worn when required

(1) Short sword, havresack, and water-bottle

A small supply of Maltese carts might be kept up at each depôt
 At each depôt

15 elephants,

200 mules,

also a few camels to afford instruction in load ng

Maltise carts and horness sufficient to carry on glation work.

(j) Olago pattern, or Lubore pattern, one to each mule, a few palans or camel buggage saddles sufficient for purposes of instruction in leading

Major A. A. A. F. aloci Beporty sentent Quarter Master General

(c) I have already given my views in some detail in my replies to question 3 of A, pages 7 to 9, but to recapitalists, and to enter more into detail, I would form a separate transport department. having at its bead an neave and experienced officer, who might be

called the nepoctor general of transport.

He should have a statt officer to assist him and also a shifted and experienced velocities y surgeon, who would accompany him on his tours, which should be extended throughout the year

Should the armies of the three presidences be carrilgamated, and several army corps formed, a deputs inspector general would be required for each army corps. Even under present arrangements it might be well to have two for the Hengal presidency

Leaving the striff off cers of divisions and languages to be selected by general officers in time of war or of peace manageres from the most experenced re, mental trasport off cers. I would have no other officers on the establishment except those with regiments. These should be appointed for a linited period say fo one year and would lave the gene al management of the transport attached to fler regiments although all company office a well gain a ce tain amon to fear are one during the time that the regimental transpo & was attached to the r compan es

I i ve l'itherto heen considering regimental trinspent enly. I have not suffic ent knowledge et il e deta is of d'insent departments to I now til e ex et p oportion that it vo id he advandte to rate in time of peace. Upon the p ope tion fixed the number of offers and the so rees from whence they are to be obtained would greatly depend

It solvious that for departmental work it would be impossible to withdraw many my mental officers and it wo ld the efore I e well to have a number of special officers to this service

In order to be efficient all transport offeers should be remo nicel and as it is proposed to him the team not diffused in general continuous content secure no mean mean and as as man propose to lead that the team not diffused in general conference they shall be supplied with in loss by Generalized. Very corpuse we turn is would not be required and a view men should be detailed to look offer the care general to could not general to make a detailed to look offer the care general to could not general in times of general and a view men should be detailed to look offer the care general distances of the content general to the cooking ment in times of general and as wild unaffer the orders of the regeneral distances of other sections.

to the groom ng feeling and exercising of the baggage-unimals.

In add from to these a certain number of men of the company to which the baggage-unimals were titached no ld al ways be a tru ng so that when the whole regiment was mobilized there work al ways be one igh men to maintain the necessary order and thee place

The non commus ened officers should be mounted on bandy pones

As in the e so of offeers a ce tain number of subordinates should be me ntained for the depart-

mental transport serv ce 'Ti ey m git he obtained from vol inteers from different regiments
(e) I bave considered all sold ees both Buropean and Native unde the head of subordin its Under the head of men I propose to consuler only dr vers

These should be in the propertion of one man for each strong of ten camels of three miks or popies tei buffaloes or bullocks or for eacl ea t In addition to these gemadais might be appointed in suitable proportions to look after each deser ption of earnings. These men would be selected from the drivers for intelligence activity and

attent on to their ork All dr vers nould be drilled to a certain extent and beggage animals would move in regular form ations such as file double files threes or fours. In the c. e of an mals that move in strings, such as

cam is and mules each o'r g would be the in t when adopting various formations (d) These we ki depend upon so many different circumstances that I am unal le to give a more accurate estimate than to suggest that the pay of off ers and sold ers employed on transport duties

al ould be slightly in reased and that drivers should (as more would be expected of them) eceive some rel at higher pay than they no r do n such b anch of transport

(r) All runks should be dressed in that, the No folk packet and loose trousers with jutters

being equally a stable for soldiers o drivers British or Native

(f) Non commiss and officers should earry swords and revolvers other soldiers should earry

their own arms

I do not consider t necessary to area drivers except smadars who might earry swords. Ruck driver should have a belt a water bottle unit a good thiel stack

(g) The deserption of transport suitable would of course depend entirely upon the locality

and to some extent on the season of the yea Wheeled transport should be employed as fur as possible for many masons. Among others on

account of-

(1) Capacity and comony of an mals.
(2) Prainty in loading and obviation of necessity of loading and unloading which takes so much time n th rock an mals

(3) Safety to taggage carr ed as t is much less knocked about n carriage than on pack snumbs.
(4) Greater control over nameals there being a driver to each train.

(5) Advantages a case of attack on a convey when carrages c a be purked or langered and employed as a fortificat on

The disadvantages are that it connot be used in a marshy very sundy or very hilly country or a fact anywi ere where there are not at least tolerable roads

Pack transport elepl unts car y great weights our travel long d stances and can be used in almost any country while a forest or log grass especially where many streams have to be forded they are sometimes the only torm of transport su table

Then d s. dvantages are that they cannot get on w thout a large supply of fresh fedder and as abundance of vater

Camels have always been the great stan li y for transport purposes in the plans of India and as long as they are properly fed and eared for and not exposed to not and cold no form of carriege 5 more convenient.

They carry great weights travel long dist nees at a slov but steady pass and req to but few attendents

It is however a great m stake to cambor them in countries to which they are used to full leave them without proje supervision. The examens mortal ty among camels of ring the late wit caused as it was partly by the exposure of the animals to a series claim to to which they were caused as 1 was pratty by the exposure of the st mass to 1 server clear to 1 we had 19° with meassactanced and partly by shore region! As no doubles greatly or place the resources of the construction of the state

and managed and on Tymp about equal loads

As I will presently point out however, they have been much neglected in India for diaught

purposes owing doubtless to the want of proper vehicles nees owing undurant or one of proper removes. In like manner, buffaloes and bullocks may be classed together, both being very suitable both for in the manuer, outsides one consense may be crossed together, both being very suitable both for pack and draught purposes. They there on coarse and easily procurable food, such as gross, leaves, and blocos, and will set grant of all sorts.

They have the disadvantage of bung very slow but they are procurable nearly everywhere can travel over the roughest country and in almost any climate, and, if not overworked, are not, as a rule, subject to much mortality on service.

Other animals, such as donkeys sheep and goats, may be looked upon merely as auxilianes, to be used as pack animals under very exceptional circumstances

Under the head of coole transport may be comprised-1st -The ordinary transport required for the conveyance of the sick in the form of doubt bearers

or Lahais 2nd -Cookes required for the conveyance of all baggage stores and munitions of vai, which would only be required under exceptional circumstances, when no other form of trumport could be used.

The trade of professional doohe or palkie bearer has fallen much into disuse, since the construction of metalled roads and rulways, said the consequent almost universal introduction of wheeled carriages as the means of locomotion. There is the widest difference between the motion and speed of a dooled as the means or necombridge. There is the waters introduce of the second and speed of the decidence of the countries of the property of the speed of the countries of the mean employed as hospital doolse bearers are, however, of all sorts, and not only have many of them probably bradly ever seen. a dooke before they are engaged but there appears to be an utiler want of one in their selection. Old main men half grown boys, men wasting away from consumption and other diseases, are allowed to go on service under circumstances which tax the strength of the strongest and healthiest soldier

No attempt is ever made to place these men under any sort of discipline, and the result is that

they are an encumbrance to an army

In my opinion every effort should be made to reduce this form of transport to the minimum, by the substitution of peck animals and wheeled ambulunes as far as possible, while those men whose services are absolutely required should be most carefully selected

In the few instances where no transport animals can conveniently go-as, for example, in Bhootan an one for measures measure are recognite measures on the recognite and the second of

To recapitulate them-

Elephants, cookes, and occasionally bullocks, would be the best means of transport for Lower

Integrating, potters, the processory were the convergence of company and account of the property of the proper any rate with the troops

Other animals might be used for bringing up supplies

(i) I have always been of opinion that immense waste of power was caused by the employment of the clumpy and heavy bulkoth backery, with polygonal instead of encolor wheels, ermy framework, and creaking aries, but I have always been told, on making enquiries, that it was best adapted to the country, being strong cheap, and easily repaired I have only lately learned that there is an admirable transport wagon in general use in the United

States of America

My informant is Licentenant Gaisford, 5th Regiment Punjab Infantry, lately appointed Commandant of the Jezailchi Corps in the Khyber, and who has given me permission to make use of the information That officer, if applied to, can give full details, but the advantages of the wagon, as far as I know, are as follows

Let -It is light, very strong, and of remarkably easy draught

2nd -All wagons are made by machinery, and the pieces are interchangeable so that if a wheelspoke, a shaft, or any part of the wagon is injured, its counterpart may be at once obtained from the nearest store

3rd -- Being constructed as above described, the wagon may be built up as required for various purposes

The mere period with anletrees and wheels forms a timber earriage On this a light platform may be placed for the conveyance of such articles as may be conveniently packed on such a carriage

If it is necessary to keep a load compact and to prevent articles that easily shift from falling out, sides may be added to the platform, and these sides may be neighbened to any height that can ever be required

and —The axles are constructed of hickory, which gives a wonderful elasticity to the carriage, and

The boves are one will be supposed by the supposed without impure one carriage, and carbles it for twees the suppless for a without impure the supposed without impure the suppless of the suppless and the result of the whole construction to thet the sugarons are not only strong but remarkably highst of strangth, a period medium sured multis totaling vary with a load which that, could hardly be expected to more. I understand that the Americans have also a very simple but serviceable method of harnessing, by which they entirely dispense with breeching

In short, from all I have heard, the American system would be well worth a trial, enabling us, as it would to male use of our mules and horses for diaught work and thereby much economize labor

(i) De dejatant the ordinary and properly fitted, opposite to examine an appropriate the ordinary soldle opposite to not all requirements, but for locals which are critical opposite to not all requirements, but for locals which are critical opposite to most ill requirements, but for locals which are critical opposite to most ill requirements, but for locals which are critical opposite most of a number of small articles and which therefore repute a greet deal of typing on 1 housely for consistent fine adoption of strong and logs; shong across the soldle. These would do very with the necessity for the charges of the control of the

system of ropes required to keep an awkward load in its place, and would save an infinity of time and trouble

For mules and horses I prefer the saddle used by Sir Douglas Porsyth's expedition to Yarkand which is, I believe, called the Otago saddle I have used them constantly on my own houses, and have never found them cause a scroback

I very much dislike the common Native galant, which is constantly getting out of shape and galling the animal

The Native attangement of phosis and prion seems to answer well enough for bullsels at their slow work. They are, and would be, more used for bringing up supplies from the base than in transporting the baggage of though Bullocl s would, of course also benefit greatly by the introduction of the light American wagon

In short the framework of the transport system would be as follors -

Inspector general of transport
 Deputy inspectors general for each army corps

(S) Division and brig ide transport staff officers, to be selected from regiments when required either for war or for peace manœuvres

(4) A contain proportion of regimental transport to be lept up by each corps under the superin-

tendence of a regimental transport officer, who would only be appointed for a limited period

By the transport being transferable from one company to another, all reals in a regiment would become familia with the work

(5) A staff of officers would be required to be kept up for departmental work, and would be permanently on the establishment

(6) Subordunates would be appointed in a similar manner (7) Drivers of all classes would be regularly enlisted and would receive special training

(8) The unimals would be the property of Government, and would be of the kind most suited to

the locality

(9) The best saidles, wagons, &c , that could be procured would be used, and all hands frequently practised in loading and marching

Legitenant Colonel I ord R D Kerr Commanding 10th Hussars

An immense question requiring months to work out and not to be solved with only a cursory reply, especially in the case of this vast empire, where local conditions vary so greatly It is evident that without considerable knowledge of the country this question cannot be entered upon. A section of the department should be kept for working the railway traffic throughout the country

As for the animals and carriage to be used so much depends on local resources, that no general rule can be laid down, but for internal wa the camel, for external the mule and pack saddle, appear to be most suitable

Louismant-Colonel J C Lo Quesno 12th Royal Lancers

What I have before said-regimental transport and squadron or troop

to

Rabisted dragoons as their peers, but in excess of establishment.

(c) A slight addition for working pay

(d) Ahle

(f) Short sword and revolver

(g) Same as Ingland—four wheeled curts

(f) Supertunerry twopers

Major J W Chaples Sth Пазазга

I have had so little experience of what is required for Indian transport service that it would be useless for me to enterfully into the details of this question, but I would suggest that large depots should be formed at well selected places where wheeled transport, &c, could be stored, suitable for the surrounding country

Major E A. Wood 10th Hussars

I would suggest a basis of regimental transport, supplemented by the transport resources of the district : e-

(1) Sufficient regimental transport to move the regiment in a few hours without allowing for hos pital and intions for man and hoise

This transport to be always in possession of regiments, and so ild be detailed for duties in canten-ment when not absolutely required for regimental purposes

(3) The ordinary bullock train of the district I mean by this a certain number of wagons and bulloels, camels, or mules (according to locale) ties) belonging to private individuals, who would have the first call of employ by Government at fixed rates and who would receive a sort of monthly retaining fee, and who would receive the same on being mustered monthly by the officer commanding the station and on being pronounced fit for

ECTVICE. These should be sufficiently numero s for the carriage of ten days' provisions and hospital establishment of the force of the mil t ry stution of the district to which they belonged

(3) Reserve transport train, so, the o durry Government bullock train. This might be placed on a different footing and so organized that the drivers, &c, were under

a proper military surveillance and organization
a proper military surveillance and organization
these men, with them cattle, from which they should never be separated, would form the class
transpost iram for conveyance of minimations, stores, &o

At all events these might form the framework of a corps which could be largely augmented if required provided that there was a sufficient quantity of transport kept up in each district for which

the civil authorities should be held responsible This might be effected by a general registration of all animals and vehicles available for transport, but I do not know enough of the transport resources of India to go into this question

Colonel J A. Ruddell 1 25th Regument

(a) One director general at army head quarters A superior officer with a jumor officer as assistant, at all large photome

One office at all other stations, except at small stations (5) One warrant officer and two sergeants at all large stateons, a warrant officer and generate at smaller stritions, and a warrant officer (in charge) at very small stritions

(c) One European and two or more Natures according to size of station

(b) Come Datablean and two or makes reasonable to search strategy
(c) I am not aware of the peasons rules among Natives, and I therefore cannot say
(c) Two state of some strong durable material per nonem

(f) Europeans infantry swords and revolvers Natives swords, Native cavalry pattern

(g) Pack and coole in the hills, wheeled, pack, and coole in the plans
(4) Mules in the hills

(i) Should be constructed of the best material and capable of standing very rough work

(i) As at present used Louiseaut-Colonel T Rouland, Commanding 1 6th Pani era

I can only answer this question very generally and with diffidence, as I know little about it The framework might consist of a divisional staff of 1 captain 1 subaltern, and 4 or more subordinates (sergeants), who should have charge of all animals for baggage purposes in the division. These officers and non-commissioned officers to thoroughly understand the language, otherwise they are useless

Londenant-Colonel A Temple man. Commandage 1 21st Pumbers

(A) I believe mules to be the most enduring, and therefore useful. animals.

(f) As far as possible wagons with four wheels and tolerably high wheels

Hurness with cellars, not breast-strape

Two strong panels or flat pieces of wood connected by flat iron rods or arches rising high over the backbones, each panel resting on a thick cushion, which should be large enough to cover the sides of the animal where the load is likely to touch the sirm. Hooks on the 1700 arches are at times useful for suspending the load from but the best method I know of pleang a load on a pack saddle is that NOT SUSPENDED THE THE CONTROL OF THE

learnt The best method of londing bullocks I have seen is that practised by the Shan tribes. They bring their goods down to lower Burna on bulleds in supergist opinization lineality, one cann taken they time their goods down to lower Burna on bulleds in supergist opinization lineality, one on each ade, and size pealed from a thick bullow benshoo crossing the animal's back, which is protected by two pillows and two small preses of horsi

They are leaded and unloaded with great Lapidity Two men, one on each side of the ballock, lift up the burden the bullock moves on, the baskets are placed, and stand evenly on the ground, and the

men are ready for the next

Leasterent Colonel J S Hand Commanding 44th Regenerat

I cannot undertake to answer this query in detail, since sufficient time for preputation has not been afforded me. Roughly I would suggest a centre depot in each division of district where transport animals, officers overseers, drivers, and others could be trained

The centre depôt should comprise of at least one complete division of transport, the strength and organization of which must depend upon the class of transport carriages, united men &c , composing the division, as well as the resources of the country upon which the transport of the division would be do entent for feeding it in case of expansion. The trusport of the out-stations should be conducted

by regimental transport, fed according to local requirements from the centre depot Cooke bearer corps should be organized at each centre depot to be utilized in connection with the trough clarre corps should be organized at each centre depot, to be utilized in conservour was not because of the control of t upon the nature of the service upon which employed and the class of transport to which attached, but as they should all he trained and armed men, they should be a source of strength to the division upon the line of men's a well as a sample flow courses. So They should be all Paris so with the excep-tion of porthy as well as a sasting flow coursests. So They should be all Paris as with the excep-tion of porthys the farmer maper, who moght have superintendence over the whole. I might add it will my expense of the rimpost, come as the principly in made farms an Aby sount, of which I had four under my commond, consisting of \$6.00 summ's each, with nearly as many drivers, and I expensed with that conventions. that organization a considerable waste of labor and money. One dayer can fall e charge of three nucles, both in the lines and on the line of moreh, but he must be supplemented by portions of the heaver corps attributed to each daymon, in no heavers to every three nucles to vastal in longing the nucles as well as to curry loads, and on the march to well, in year of the three made, thus loaded to keep them up to their driver, and assist in all evenations on the masch. A driver will not carry a load, therefore in Abyssian I lost the pay and carrying power of two men to every three mules

(a) Director at army head quarters during peace, a sub-director at centre depôts and stations others regimental or according to requirements. All officers, when being trained, to go through a short course of veterinary instruction

(a) Superintendents, overseers, &c , urned men drawn from the ranks of the army, and holding

the positions of non-commissioned officers

(c) Ten per cent Europeums to act only as overseers or superintendents drivers Natives enlisted from classes, recording to critic employed , loaders, greasers, line cleaners, &c , from the cooks bearer corps, necording to requirements

(d) Similar to corresponding ranks in, or attached to, the rimy

- (e) Che up, suntable durable maternal made loose with graters for all mounted men
- (7) Brown leather sling earlunes, pistole, and succide for mounted Il repeaus, Native overseers, &c., pistols and a useful weapon that could be used for outling wood, such as a luline (as worn by Goorkhas) or proneer swords

 (g) According to cattle available
 (h) This must depend upon the expabilities of the country in which located, unless Government mule and bullock farms are established

(r) The curt and huness of the country in which located and where bulled's are used

(f) I prefer the Otigo saddle to any other When bulled s are used as pack animals, of course the ordinary pad

Lieutenant Colonel G Parker 92ud Highlanders I regret that I am not sufficiently acquainted with the subject to answer in detail

(g) Wheeled for the pluns , pack and coole for the hills (h) Camels and mules

(r) Country carts

(1) Country-made saddles

Major F Stophen, 4th Batta lion Rate Br made A transport department to be formed entirely sopu ite from the commissii nt department.

(a) Chief transport officer for India.

(6) One for each division and brigade, and one European and one Natave clerk

(c) One officer and ten men per battalion

(d) I am unable to make any suggestions under this head
(c) Same as for rest of the army in war time, with a distinctive badge

(f) Carbines, brown leather appointments
 (g) Mules, supplemented by the larger mules drawing light carts

(A) Mules

(r) Hurness of English manufacture and made to be rivetted where practicable (not sewn) (i) The ordinary unmutation saddle with straps

Major Hugh P Pearson, 12th I have already said that I do not advocate any change in the existing method of procuring currage for the use of the troops in India , but

mg menon or procuring extrage for use set the troops in those. In the highest set from for more impresent in the uppleasant of the carrage when procured I would take the moveble columns of the carrage when procured I would take the moveble columns of an appear them by placing them under regiment I a sportman primerly vs also under that of a superintendent of transport and his assistants I present it will be entheent if I give a reight elected of a framework, which to the requirement of transport and be assistants. I present it will be entheent if I give a reight elected of a framework which to the requirements of transport on the planns stations, show dilaboration for an overview. abad First, then, as regards-

(a) Officers There should be a superintendent of transport with two assistants whose duties should be to visit all stations where moveable columns are maintained, and to satisfy themselves that the carriage was in good working condition, and that the subordinate officers and men employed in the transport department were acquainted with their duties. Advantage should be taken of the annual manageuvres of columns to see the men and cattle of the department at work. The supermitendent should have in his office complete information regarding the amount and descript on of transport available for line or impressment if necessity arose in every district in the presidency, so that expansion of the transport establishment might take place rapidly and with certainly

The superintendent should command the services of one or two veterinary surgeons, and these

again should have salutris under their orders

regard source are sensure states that the three has been also and the more the obtain a range of the station, and should be responsible for its case at all times An officer would be detailed in each corps and battory to supervey, and he would be resisted by selected non-communicated afform an Reasoners of good character, if it for woil, might been find employment. The regressible officers and mean should be persolved by charged the transport of the regressible of the responsibility of the responsibili

(b) Nature and position of subordinates

This is partially answered above Amongst the Native followers would be found some less obtave and dense than others, a proportion of these would be selected as mates, sudus, &c (c) Men (European and Native)

European these would supervise One non-commissioned officer for each regiment, and car private for each company would suffice. The a briter, and for Nitra copys in proportion. Notice these would be non-one the same proportion as at practice, but of course the number should be fixed. One may noted by required for 10 counts; or 3 mules or pomes or 1 c at & 11 cm. men might be hired with the currage, but pud by the State, the contractor, is now, being bound to

exchange men or animals unserviceable (d) Pay and pensions

Pry the ordinary rates of their class for Natives | For officers other than reg mental such scale For regreental officers and men no additional P 3 as Government might see fit to grant

Pensions would not be required under this system

(e) Cloth nr

This need not be considered except with regard to followers. All such should receive a warm on t and a cool one both of khali. For colder chimates they should be supplied a th blankets and extra clothma

(f) Iq pme traidarns

For office s and sold ers those authorized. For followers none

(g) Descript on of t ansport on to be welled pack coole &c

This would depend entirely upon the local ty Ordina ily in the pla s of Ind a wheeled trans

port and cancels would form the principal carriage though a Central Ind a where ro ds are few wheels could not be taken and elephants would be better stuted to the jungle and broken ground than camels In Afghan stan and a m lar cold and mounta nous contines mules and yaboos have proved them

selves the best baggage-an mals and in hilly count as covered with very heavy a nigle cooles would be the only carr age that could be used

Any scheme of army transport would of comes be wo ked out in its detals to suit the local ties that would have to be considered.

(i) A thala to be a ployed

This has been al eady answered under sub head

() Nat e of carts and har ess

Unless the State was prepared to be it everne of is transport which I do not contemplate the Indicator of it eccurity would have to be made it to be the first general purposes. But I see no reason yield generate should not own a certain number of early with che saidle before sevene report ones where speed might be an object and good reads were an lable. These carts in ght be forced by custe s (now so often sold for a song whilst they have yet several years' light ok in them) and used for station and eg mental work currying building mater il for jub e works department road metal &c. The harness would be Ca vapore made and on the English pattern

(j) Nature of pack saidles

I cannot suggest any in hea of those now a use which seem to answer the purpose. Under regiment I supervision the fitting of pack saddles would eccive attention and the e would be few or no sorebacks

Captan H. M. L. Hutch son 1 14th (Prince of Wal s. Onn) Reguntat

I would be inclined to try the experiment of handing over to a regiment a sufficient number of single bullock or puny earts (specially built to carry about 5 cwt cach) to can y eve ything also ved by regula-tion and have the men taught to drave and look after the tion in the field. Tollowers would thus be abol shed, and escorts to did be unneces

Captain R H Pawcett 33rd

(b) In the ceded d structs where the regar or black cotton so las especially thick address to state rain and treathern s for my movements are essible country or off the metalled roads pack b llocks as used in the Mah atta and Mysore vars or cooles would form the only transport

that oned be employed except for a year plant me. Houses and mu as and deep no the so i hot one size or of m makes deeper go ng than any plant jed field n linghand and wheeled trail e us out of the quest on them. As the g omed after n n cales being deep us a growy mands could not one of the quest on them. As the g omed after n n cales be no given us of persy transics sould not one of this page in the hot and cold sessors pon es on makes and even wheels in ght to compleyed yet through the control person of the cold sessors pon es on makes and even wheels in ght to compleyed yet through the cold person of the cold sessors pon es on makes and even wheels in ght to compleyed yet. it would be do only degrees to a few on a cong area in its part of the country with transport that mught to brought or a standard liby a long short so that the standard of the standard to brought or a standard liby a long short of a nn. Thus cose not of core copyly ten much librards a three searches or all cle made short on might not happen to consider the first fact only brought forward as an astance of the necessity of art atom of tampen t in different materials. p rts of the country. I understand that except in some remote parts of the interior the bing es who dept up true pot for us in former wars are almost extinct as a class having been beaten out of the he d of comme e al enterprise by the metalled roads and the milway

Clan IC 1 O Evans Com

I cannot suggest a yth ug of the k ud h ch would not be another in being Roya Artill y Merret | leavy item of expend ture added to the mil trry budget without corre spooding ulvantages

Le tenant-Colon ! H S Comm nd . R ya Artille y Thajeimyo

I can only mention what I belie eall are aw reof that the Ger and only mention which here even no an eart the care for mans reg ster the horses cuts &c that could be made a nible for tanspot in va in c y town vilage o fam II t n S G net Wolcleys Soleri Political de ption is given of compones of n my sarvo e comps under commo sar es a loft le descript on of carrage

antible for he se draught. He states that to costs under count waters a their the discount of carriers to appear to see a proper that the second the Ame on the Ame on an are perchall there the uport we appear to a claim a second or all the creat below This could only like the creat below This could only like the creat below This could only like the creat below This could only like the creat below the second of the this country to the country of the cou

turisjons, pipers to be go comment of our to see into any source comps comprumes can recomp our like of the defense of the consistency of the comment of the comment of the comment of the satisfies of the satisfies of the satisfies of the satisfies of the satisfies of the satisfies of the satisfies of the satisfies of the satisfies of the comment of the three comments of the comment of the comm are going in the most nine in the stem in the figure in continuous using M. In loss sees another 1_{10} or so clead nation remain up out in the open in critical cost and contenting them set as if so it is not in the object of the cost of the perish in a month's time. They roam almost at liberty over the pasture-lands of Northern Khalka and the country of the Chakhars

The great tree meeting is held it Utga, attracting competitors from many hundreds of miles. For transport in Afghanistan these loises should be most useful, could they be obtained"

From pages 120 to 131 of the same volume an account as given of the two humped or Bactran comel At page 122 at as stated "It cannot there without salt, and cuts with availity the white salme efforeseence called gudyn, which covers all the mushes and often exudes from the soil on the

griss steppes of Mongoliv The absence of gudpr and salme plants probably explains the reason why they cannot live in good posture-budes in a hilly country, to say nothing of the wont of a desert to roam over in summer."

Instruction might be given at the gairson course to all officers in anything specially belonging to transport neces my to be lount, and those who upply and are recommended could be attached to the commissional department at stations that me distant from any of those where large transport establishments might be muntained, and at the large stations they could be attached for two or three

emplatements migns to a minimized, win as the supersistent step come are translated for the respect of many services enjoy or commensurely, wholever form of transport or may service enjoy or commensurely, wholever form of transport or may service enjoyment in each of enthlyment in deputy vasistate commensures general. It would appear to be less in 16th to have not commensured officers and men of enviry and impaired to the best in 16th to have not commensured. Officers and men of enviry and impaired of the Disappears (some from each or the contracted in transport to work. The Nature perform could probably be to ented to for the work, but havildars and neals and non commissioned officers from Nature caralry regiments might be attached for short periods to transport establishments. Sir Garnet Welseley recommends central fire revolvers as the only weapons to be curried by transport corps

Major H C Lewes Command-nog I let Royal Artiflery I do not feel competent on such short notice to draw up a scheme for the organization of such an important department

(e) The officers should be good imprests, and selected specially for different qualities, such as known energy patience, knowledge of animals, their cayolabless, alments for, cryectly for organisation. Those who are good spotteness would be useful mes generally. Coptinus should be endinged for large charges, having solutions under them in charge of small depots and stations. One officer not considered the control of the lower in 19th than heutenant colonel as superintendent of transport for each column, with an assistant (of any runk) to take special charge of the office work

b) Subordinates for localities might be European non commissioned officers, but only those most o "monomines are "monotes inguis to Languer along commissiones uniters", 70 ctory 10 met per specially recommended for sobrepty and michigenes should be taken. They must have a collequal knowledge (good) of Hutdustim. They would rank as warrant officers and act under the subsider officers, but would only be request to it the tier and on emergeness arrang.

Under these nould be tudals (mounted men) brung charge of a certum number of beauts, cuts,

&e , on the road

(c) The drivers would be ording if Native followers, but enlisted men
(d) The pay and pension I would regulate by companion with other branches already existing (e) Clothing, khaki Norfolk pael et, I mekerboekers, shooting boots, griters and turbin, for all

Tanks, officer kving distinctive mails—gold densitive coving over general managements and coving a transfer coving the coving and crus, Sain Brown as beits, light coving an oil, and large bore breach lossing pasted double barnel, on revolver latther hatered, and softwarter bettler

(g) Puel bouses pomes, mules, bullecks, eamels

(A) Prek animals might also be used for dringht in light outs. Maltese pattern, capable of being taken to passes and past and on the anumals in case of emergency would be useful

I would suggest too that all commanding officers cauting horses should be called upon to state

whether my horses they cast would, in their opinion, be worth keeping for transport uses at depots of at bases of operations

as sees or operations.

Although no longer fit for artillery or cavalry purposes, many such horses might be capable of performing good work in such a way. They should not, honever, be end on the saurch.

I think breast harness and naw hade it was, such as are used in South Africe, best

Mayor J. Hanghton, 18th. Royal Artallery

(j) No better pack saddles on be found than the old Bengal within for baggage-anunals with mountain batteries. There is an opening. outside each pid through which the stuffing is casily removable

Magor W W Murdoch Com manding E A Royal Horse Art I lery

(a) Regimental

I must premise my answer to this question by stating that I have never had any experience with an army in the field, and therefore my nemails and suggestions on this subject cannot be of much value.

I consport I should say, must be divided into four parts. I would

divide it thus -(c) Ammunition columns

(b) Commissariat supplies (d) Reserve supply or general transport (c) In asymmetric to modeled that which a set also ups ecompany a segment in the field of by day, and would include corrage for tents, conting utansis and personal language of officers and man, and also proc. Inside to ctry. 60 transfer of amountain per un.

The transport for the language, do, on a un scale should be least up in posse, me, and it all the continuation of the language for the continuation of the continuation

times be in charge of the regiment and thus it would be to the interest of every regiment to keep thou transport in as efficient a state as possible

This carriage with all the animals should be placed under the charge of a regimental officer

(a subaltern) I would recommend that he should receive some staff pay, and he might perform all his regular regmental duties. There is sericely a regiment in which an office both willing and equable of per forming these duties might not be found, and in a very few years there would be a number of officers. in the service who would have a good practical knowledge of the animals used for transport purposes

and capable of treating all minor adments, especially galls

When a regument was in the field, the only transport that would accompany it actually on the line of march would be the unmunition modes and a mule to carry such things as are required by the medical officer who accompanies the regiment. These mules should be under the charge of the regimental transport officer, who could keep them in any convenient pl ce for supplying ammunition when necessary

The rest of the laggage could be left to follow under the charge of the quarter master of the regiment, according to the orders that would be assed by the officer commanding the brigade or division I see no reason why in peace time the regimental transport should not be available for all the duties now performed by the moveable column

With the officer in charge of the regimental transport there should be a young officer associated, who aspires to fill the appointment should it become vicant

A sergeant would be required to not under the regimental transport officer, and a jumor noncommissioned officer, who would be learning the work and guining experience.

In the event of a war, all the regimental transport officers of those regiments that are least likely

to take the field could be ordered up for employment in the general transport service, and thus a great number of officers with a certain amount of knowledge would be available, the only extra expense to Government being their travelling expenses to the seat of war It might be made as a condution of accepting the position of a regimental transport officer that

this officer should always be required to do duty with the general transport it his services were required (8) Commercial winds of the mode include the whole of the necessary supplies for the army, both for man and beast, and should be entirely under the control of the commissional department

It would be scarcely necessary for all the animals and carrage to be kept up in peace time, but a nucleus would most certainly have to be kept up, to be mereased by purchase or hire in time of war

(c) Ammunition columns —These should be entirely separate, and should be under transport

officers, assisted by others driwn from the regimental transport service.

Of the constitution of these amministion columns I have treated in an answer to a previous ques

tion, so it is unnecessary to repeat what I have said there

(d) Reserve supply or general transport - I feel sure that on a campaign where the line of commanication is a long one the only system that has a chance of success is that of portioning the road into stages or marches, with officers stationed at points on the line to superiatend a certain number of stages or marches

Four stages would probably be sufficient for one subordinate officer to look after

Each station where there is un officer should be a small depot with a few spare canads, and there should be some means of treating sick namals A superior officer should be appointed to superintend the working of a certain number of stages-

about 12 He should have a larger depôt under his immediate charge, and he could visit all the stages under

hun once a month The annuals employed on this general service should remain always on the same stage travelling

backwards and forwards. The attendants would then be able to but themselves, and very possibly make a shelter for the animals Should it be possible to obtain carriage along the route, the owners would probably be glad to ply

for here on a stage near then own homes, whereas they might be very unwilling to send them to a distance, besides, according to this system, confrictors bringing a large number of camels would be enabled to look after them to a great extent themselves

I have autored this question generally, as I fed I am not prepried to go into details. Should a system something the what I recommend be thought of, I should say the details would not be very difficult to fill up, and they would have to be modified according to after experience.

Major T M Hazelingy Communiting E 3rd Royal Arthliery

Assuming that in a country like India a moveable column is a necesnesoning uses in a constry the times a inverse commute it is received in every expense, I would suggest forming all parts of it into squade of from Rs to 50 summls, and filling each squad up to 100 to 200 from currage in district, a most craftly register of which should be kept Reah owner maptible by given a neal label, also a small extending the (though I should think the latter would be hardly necessary)

è-A sergeant for every 3 or 4 squads

A jemadar for every squad c—Hul

d -Relative rynks in army

e — Distinctive uniform, plain serge f — Sword and revolver brown leather belts

g —According to nature of country, ecohes only when no other available i —Whatever district can provide

: - Light 2 wheel carts, if possible service wheels

1 -These in use with engineer train

Major the Honble A Shewart, Commanding I C Reyal Horse Artillery I must state that the following suggestions are based upon a precencerved idea, never thought out in detail, that the abole army of India should be divided into complete brigades (three brigades to a division) -

(1) Each brighte having a complete staff, brighte major, deputy assistant quarter-master-general, and heads of departments (2) Brigades to move in relief of brigades instead of regiments and batteries independently.

(3) Transport to belong to, and remain m, the district

(4) Native followers also to belong to, and itemain in, the district, accompanying regiments of bugges to new status, and either be exchanged with those of relicing bugges when met upon the march, or to be returned from new status. Grass cutters to belong to and live in the various villages of the district I think each brighde would thus be efficient. Officers and regiments of both British and Indran services would be thoroughly intimate, and frateringe more to their mutual advantage and that of the service

My experience in the two short campugns in China and Afghanistan has convinced me that the more thoroughly Luropeun and Indian regiments are thrown together the better At present I from there is jerlousy instead of friendly liviliy

Premising, therefore, that a complete brigade is stationed in a district, and has to be provided with transport to render it efficient-

Transport will probably be of four kinds-

(1) Permanent, the property of Government, to form the nucleus of district transport when mobilized

(2) Retained, the property of the inhabitants of the district, retained by fee for mobilization when required

(3) Contractors (transport), the property of Government contractors, regularly employed on district woils, to be used when necessary, the contractor being bound to replace it by other temport upon smergency.

(1) Compulsory, the property of the district, to be supplied by those villages who do not formsh

their full quota of retained transport

I regret I am not acquainted with the laws and customs of civil administration, upon which the feasibility of my plan must much depend Still as the Punjab is, I believe, divided into-

and each tehnil has groups of villages under zaildars and lamberdars, it could not be difficult to organize some method of obtaining transport in each district of a division The quarter master general's department would know the requirements, the commissioner of the district would probably know the powers of supply

First, select young officers, who being of retive habits are deemed suitable, as district transfort officers. Probably two would be sufficient. Let the senior, if possible, obtain the services of some English speaking Native, who has either himself been a large contractor, or been employed by a large contractor, and let the civil authorities also furnish an officer to assist. Let these officers visit cash district carefully, and ascertain the number of-

certs, and wheeles available in each rulingo and afterdue consultation with the Natives of the district they could arrange the relaxings fee to be paid. Ammals and certs returned to be numbered out doubtled, a Netwo mean rulingo being responsible for those of the willings. In many rulings to doubt pensioners of the Government would be found for these posts. Indeed, it might form part of the stipulation for their receiving pension

Harng recertained the amount of transport in the district private property of villagers &c, and of contractors, see what would be offered to be "retained" under certain conditions, such as these-

and so that heavy are a last return or section by a contact which contact under cut and containing, section state.

(1) To be musticed in their villages quarterly by transport officers, rolls and descriptor rolls to be compared and notes made as to efficiency, animals temporarily inefficient, if since, to be considered efficient if the same owner one of the contact of the contac

(2) To be mustered at head quarters of bugade or wherever the general may determine annu ally, and mobilized for a few days of necessary, when they would be paid then retaining fee for past These sums should be hissal It would be economy in the end, and make the transport suring

popular I do not know if there is any tax in any district upon animals. If so, a revision of this tax, or part of it could form the retaining fee

When permanently employed for active service, the numals should be bought outright if a pit-determined contaction, the owner finding drivers, who would come brid, with the number to that willings at the end of the employen, it being then optional to the owner to repurchase his animals (it

a much reduced price) or not

The question of the permanent transport is a matter of money and experiment Money, because the cost will depend principally upon the amount of permanent transport to be

Experiment because it will depend upon the amount of use which can be made of the permanent transport in time of peace, how much of the cost will be recouped

It will be for the clover district officer to I eep his transport effective at the lowest possible cost, and his promotion and therefore remuneration, should depend upon this
Having assertuned what trunsport of the four kinds are available in his district. He must tell

off a portion of each kind to the various departments, and regiments of the brigate, making use of the regimental and departmental transport officers and their submidurates to assist him in carrying out details

As long as the transport is not mobilized, all his department should be under his orders When ones mobilized, the departmental and regimental transport must be under the orders of communiting officers and heads of departments, and the district transport officer becomes only an inspector, the assistant district officer remaining in the district collecting and arranging for reserves to supply casualties, &c. It would be premature to propose a plan for permanent transport. The schedule (1011)

transport officers with the assistance of some of the largest and best Native contractors should do

The g e t p ne le would appea to beAlways adopt local mez s and adapt to Government ase

Lice I means a e ge earlly best eq the var ety of vagous and earls employed in the different parts of Great Butain and Irelan I and all the four quarters of the globe whell are always found most suitable for the particular district in which they are used and for the animals that draw them

(a) Commissioned (d stret) (regumental)

(b) Non commiss oned European and Native (c) Selected sold era

(d) To be determined by transport efficies but to allow no Native to be armed who had not (e) 1 reviously served as a soldier

(g) According to district. The means are lable in the district to be adapted for Government mil tary pu poses

Ditto dvite Ditto datto

(7) This is a very important and difficult matter about which I only know sufficient to know that I am not competent to offer an op mon as to a pack saddle for general and permanent use but aga n I y adopt and adapt local pack suddles

Let me here give the weights of the siddle and equipment of pomes attached to me at Ganda-

mak and utterly unlitted for anyth ng but a very light load-

lbs 02 Pad c 8 10 8 Suldie Jowl and roller 9 0 2 2 Bridle and I endstall Pacl mg lag 8 Peed ng clotl Hend cham and peg 4 4 7 12 8 Heel chain and peg ſ Total 10

Add to this weight alittle food for themselves and driver and the amount of the latters own hit wich he yould be suc to make one of them carry and twill leave very small allowance of weight for the load

In concl. sum I must add that I think commissarret than sport should be quite separate from other than sport on all occasions. It will be for the general merch in that to determine in conjunction with his district transport officer and assistant commissary gene al from which pa t of the district the commissiont i ansport a to be r to ned

Of course tile comm ssairat will also be able to indent upon the training the partment for some of the permanent carriage from time to time the same as any other department

Men & R Terrer View A moult had for a part department or our part for of pease copools of extens on when required to see see Part of this establishment to Ho se Artil ery be kept up permanently in each station and attached to regiments

(a) One director for creb army corps with a sistants (permanent) for divisions and brigades

Each reg ment to I we one officer each battery one non commiss oned officer

(b) And each regiment selected non commissioned officers. These regimental officers and non by Anna come arguments extract that commissioning species these regiments during the form second officers who is employed with the transport copys to be struck off the regiment of dury, and to be changed per od cally so that a general Law risage of transport duty management of the number & c, should be diffused through out the army.

(c) Ant ve drace a maletters &c only as muze I Du openn and Antive do not answer

(i) Special staff pay for director and a stants Regimental pay and pensions for the rest as at present with working pay from four annus to eight

annas a day while imployed recording to runk or position

(c) Regiment Lie English officers and non-commissioned officers. Not we as for drivers in Native briteries of artillery, on the whole might have a uniform based on that of the army service corps m England

(i') As for drivers with Native batteries (mounta n)

(g) & (/) For all work not retually a the mountains two wheeled carts drawn by horses or bulloels to mon tams prel carriage o raules

(i) Two wheeled cart's not heavier than 7 or 1 gl ter than 5 ewis If for Julioeks the ord nary

(j) If mules the usual pack saddle of most recent pattern

Major P FizG Galliney Poyal Art llery

This is a large question and I really do not feel competent to enswer it will of more information than I can obtain at present and anthout some data to go a pon As negat is the organisation of the army for va -I mean a def te organization-I will endeavour to offer a few general remarl =

I would only organ ze a paled system for one army corps of 20 000 means the Punyab and for one on any distance of the viole of the person of and after deem for these runled by the purpose of and after deem for these runled by the purpose of the person of and a must suffect for us to tem as il follo ang bavo some sucl-s

In the P pub to example by do you what an army corps of 90 000 men is to con ist of calcu late exactly (having regard to a campa gu anywhere west of the province) what number of ammunition

wigons, country carls, camels, mules, and pomes it would require to move this, lay down the rendez yous for each division or brigade, and hence the centies where the carriage must be collected. Les the your of each unisses of originary and money one courses must one course, manufacture in some or course, in a same are a second for the proper number and second of ammunition negots, manufacton each symmetry camp equipments, tools, and prek saddles in store for the corps, the each military district barv. I segre mitendent of transport or commission of other specially detailed for finding out the amount of corrage available in each district, and in connection with the eval authorities enders our to have the number of carts and annuals get at-able, also let Government encourage the keeping up of the breed and stock Radways are much against this, and hence I would have no branch lines in the Pinjab, only trunk hees An extension to Kushilgail or Aktook and one from Luthina to Ferozepar are all non required for military purposes this sade of the Indus I would propose that certain large proposons, Nature noblemen, gentlemen or zeromediare, society a small sum unusually to encourage them to keep up a supply of curuge in their own districts

(a) & (l) Now as to organization. In perce time have a transport officer in each initiary distinct with above dates, also with a complete knowledge of the whole machinery in case of a mobilization Number of animals and carts required from him where to concentrate, how pack saddles to be obtained. &c Let him have under him one Nature officer and one Duropean warrant officer to be thoroughly conversant with the details of mobilization. The former could assist him in the district work, the latter do all writing, &c. According to my system of having six districts in each army-corps this prices on at writing, so According to my system of caring six districts in real start-copy was would give an affice and two assistants per larged on mobilization, which would be enough I that, supplemented by a few European warrant and Neutre and commissioned officers. I am of opmose that a superfluit, of officers for the transport is a mistal of they are above the most required of flam. Further that all officers employed on this service should belong to the Native army and have presed the higher standard examination. It is worse than a farce employing young officers of British regi-ments for transport dities. Much hardship and methologogy are the results. Officers and non-commisstoned officers employed should be included in the commissional department and under the superior officers of the sune, but termed "transport branch".

(r) I would have no Europeans employed on the transport except officers and warrant officers. The men should be the cartinge, and drawers or mulcteers who own the carriage, which should be purchased from them on mobilization (money sent to their districts if they desire it), and they should receive legular pay like my other followers. After that, at the conclusion of the war, they can take back their earts or animals on repayment of the price paul, and seturn to civil life, allowance for wer and tear being made

(d) The commissairt rites of pay to regulate that of officers, warrant and non-commissioned as Same as regards pensions. No pensions to be given to drivers except for wounds, or to ach officers

tions if they are killed

(e) When the number of earts and animals is settled, every large commissariat station in the army corps command (or the assenals) should keep in store a small supply of warm clothing for these mena kind of uniform

(f) No equipment or arms are necessary for the drivers. They are, a should be always, protected
(g) The transport of the country must be made use of. The only wheeled carrage allowable would
be for augmention columns, 1012 artillery wagons (partially only), and for general transport party country carts

where very large according the property of (1) & (1). (4).

Major W H Noble, Royal Artillery

Transport in India will always consist, as at present, of-

(I) Rail

(3) Wheeled carriage, Government property
(3) Wheeled carriage, bired
(4) Pack anumals, Government property, such as elephanis, camels,

bulloaks, mules, ponies, and donkeys (5) Hired pack animals

(6) Coolies

To suggest in detail the framework of a transport system suitable for the various parts of 11nd a would require a much fullet treatment of the subject data can be given in a brief page of this kind. It is a question which should be worked out by officers specially appointed for the purpose Briefly however, I would suggest as follows —

(c) The officers in time of pe ce should compute a director of transport for India assisted by a

small staff and by a suitable number of district superintendents, with probationers attached

In time of war it would be necessary to draw officers from the many generally, but considerable discretion should be exercised in doing so. To take a young subultorn from a British regiment, knowing nothing of the language with no experience, and no qualification except a desire to get to the from, and to put this officer in a responsible position, where forethought and self relucion are specially requisite, is "not the way to do it." A transport officer has particula by onerous and responsible duties to perform in t me of war, and

to enable him to corry out these dities efficiently, it is exceedingly desirable that he should I are bid some experience with respect to them in time of peace

e experiences was respect to seem in time of peace

(b) S therdmates should be European non commissioned officers and Nat we overseers

(c) No European men should be employed, all diviews, &c, should be Vidices

(d) Pay and pension might be settled on the same scale as now allowed to commissant depart. ment

(c) The nature of clothing might be based on that of the army service corps at home

(1) Brown leather accountements, swords and revolvers for officers and non-commissioned officers, tulwars for Nature subordinates, no arms for others The description of transport suitable will depend upon the nature of the country

(a) The description of truspose a man Rail will be used wherever practicable

Next to rail, wheeled carrage is best, but its use depends upon local conditions

(1013) Appendix IV.

The main advantages of wheeled carriage are

1) A comparatively greater load can be transported in this manner by the power applied

(2) At the end of a march the load need not I e tal en out of the eart

The latter is an immense advantage on service

The employment of puck animals or cookes must depend upon local considerations

(/) Bullocks for carts, Government animals for reg mental transport, Government, bired, and contract animals for supplies

In many cases it will be found economical to contract with substantial Native merchants for car-In many cases is was to found construct to construct which and the results of carriers of supplies payment to be mode on deline. If he batter made or carrier on one will work well for the Netwe merchant, diblough he may be versus to welling on the under Government officers. The reason is obvious. In the one case he delist with people who understand his language and wants, and he is permitted to make his own arrangements on the march, in the other case he is hable to be

misunderstood, abi sed, and hustled

minimization, on sea, rine, messaca (i) Irrusport cuts should combine lightness with strength, but it is a futal mistake, and one often fullen into, to sacrifice strangth to lightness. Wheels architeres, and velteres-bels require to be strong and well constructed to stand the missacant polling one load roads. It must be horns in mind that case of dramght, which is the mini feature in a wheeled volucle depends upon etabulty oran more than on lightness. A stong although comprintively heavy, cut can be drawn with greater ease than one in which through inherent weakness, the wheels wobble about, and are out of shape. A cheap cart,

which imough meeters were necessary as we wheeler voloties about, and are out of shape A cheap cart, modeled up for the occasion, is at untrastraverby and ultimethic personary untile.

Across the freuter all wheeled curage should, if jossible, be Government property. Bullocks should always be employed when speakedale, as the odmary sample yels cent then the used. This employenest of pourses or mains for drugglit accessatists braness, and the provision of its, the fitting of it, the keeping it in order, and the requires it of entry as the quarter on the march, eatla mode indoor and expense [j]. The Pany h gean, as modified by the Simil Committee of October 1879 and Questia Committee of the contrast of the cont

tee of August 1879

Captara G C Buyly 13 8th I can answer questions 7, 8, 9 and 10 (as regards general principles

Rejoi Artille y only) most conveniently together

In the time of peace I would have the whole trunsport under the commissionst. In the time of war the transport of an army in the field (the managements for troops not in the field to remain unaltered)

should ut he first instance be rused by the commissairst. But as soon as the troops were in motion, the transport (all of it) should become a separate lepartment, with its own director (or other chief) the tribupou (in t. i) among some a septric equitient, wou to two mixes (v. owner ways) at it head it some officers, by, possibled of every body dee and triung orders from the communication in their [of the toppe in the field]. This communicate in effect [or officer general communication] should have two with officers, to be dyled directors of supplies. The intention of supplies would be officers specially uppointed to the past which would only creat during operations in the field become communication of the

at the base of operations

Thus in the late Afghan war there would have been say directors of supplies—two for each of the three columns Aducator of supplies should be most earefully selected. He might belong to any corps or branch of the service, and be of any rank not below that of captain. It might be con ement for him to be of the same rink as the senior staff officer serving in the same column or a gride lower The whole direction (not the administration nor the discipline) of the transport should be under him He would receive orders from the general (I am here sperling of the director with the general) himself or from the source staff officer as to the crusting distribution and probable movements of the troops, and should be furnished by the heads of the various departments whether staff, commissariat ordinance, smeletal, or finement, with this temformation he may require us to the sains, commented and distribution of the troops, their probable movements and consequent requirements and the means available and hi ely to be available for meeting these requirements. Thus informed, and thoroughly in his general's confidence, the director of amount of the requirements. This informers, and toroughly in the general soundaries, the director of applies if it for he post, would so distribute the transport as to obtain the leet results, on the whole, from the menus withink. His real duly would be to regulate the distribution of the trumport and home in time of peros, when the amount of transport analishe may be considered equal to all demands, this office is unnecessary, useless in fact. But in time of wir when the supply of transport is not equal to the demand, who is to decide on the rival class of the various departments, each landably anxious for its own success, and naturally indifferent to the success of other departments who shall deede whether I 000 camel loads of grain or I 000 camel loads of immunidepressions who skill tensor ventors 1000 from stores regain or 1000 from stores of unman-tion are noted ventor (I on pressure) that those in the despite carrage is belle)? Obviously some one who is not at the wasty, clearly probable, of the carry a very effect both food and arcmanition will the menus, carriage or probable, of meeting these wants? The despites about his to be left to my officer, bourcer tile, who is presently indeeded in the success of one depot meeting the modelur and consequently it when it better that the type of whose beddinger, and by, and impartially there can consequently it when it better that the type of whose beddinger, and by, and impartially there can to no doubt. The friester of supplies as the office, who would allot the trumport for all services, mend, telling the ductor of trumport (or he representative) to allot so many cuts, comely, miles, cooles, &c., to such a department for such a duty, on the completion of a high the trumport would cooles, &c, to such department for such a darty, on the completions of which the transport would become weaking for any purpose. For instance, a direct of supple as Kundaius might order director of temport at Dwiser is follows: 'No transport to be allotted to endouse till further orders, supple communicationersals in full?' or "Affected controls tragently required, thus were deltang, give, recedence to all demends for extrage for those.' Or be might say, "A little that 200 cannels within the control of the control of the departments concerned to lord times cannels so they thought fit. Of course in would misora the departments concerned to lord times to construct the control of the orders in would misora the departments concerned to the orders in the control of the orders. had send or was about to usue for the allottment of transport. I do not thank that transport should be allotted to any department for any great length of time, as the requirements of the service may very usually. The distribution of transport will, of course, be affected by any extensive movements of troops, accidental losses of stores by fire or by the enemy, unexpected abundance or failure of local sui plies, &c

As regards regimental transport, I think that if a corps remains on the same ground for more than, say, 48 hours, the whole of its transport should be ut the disposal of the local transport officer for any public purpose Of course, if it were known that a corps would certainly resume its much atter a half of not more than three or four days its transport should not be interfered with, but when further movements were distant or doubtful, it should not retain its trusport in illeness, while the transport department in general might perhaps be greatly overworked

I also think that at all events on service Government should provide all carriage required who ther for individual officers on not ut its own expense. It could be then alloc course, great the for individual officers on not ut its own expense. It could be then alloc carriage equipment and proper, and the naunth would shaye be available for any pubble purpose. I have read in a black book that during the winter of 1885-65 in the Connect way, while crimings we as so sentee, there were literally hundreds of baggage-animals belonging to officers doing nothing, because they were private

property This should never be.

Before quitting the subject I should add that if the system I advocate (of having directors of In 1970's quietage case suppose a suppose a suppose a construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of the construction of suppose and the interactions research from the district of suppose A direction of suppose of the construction of suppose and the constructions research from the district of suppose A direction of suppose the bree might not be also during mose surply, but I thank it better to have one

Of comes, the functions inducted for a proposed direction of supplies might be executed by an office the time start which is a commission of the commission

that he be responsible for the efficiency of every part of the service, of every department (so far as it depended on the supply of transport) abke, and not of one more than another,

that he should not interfere with the working of either the transport or any other department, except as regards the allotment of the transport

In short, the director of supplies is a traffic manager only-neither more nor less, not a commanding officer not head of a department. He is only would when the demand for transport outstrips the supply

Lie stenant D. C. Wace, R. L., No. 4 Houses Mes donn But tery, Pumph Frontier Lores

(a) Officers -In time of peace, I think the only officers noessary to be kept up on the transport establishment would be one per division in sole change of the general transport; regimental and de-partmental carriage lept up on a reduced scale, say built the require ments of the regiment when on service, being superintended by regimental officers under the supervision and orders of divisional transport officer

This officer should also exercise supervision over the several regimental and departmental truss ports in the division, the interior economy and pay of all such being in his charge, monthly bills being contracted to the fifth shough the different regimental and departmented offices of their respective temporate. The officer should be considered a member of the drasonal staff (b) To exact this officer three should be a proportionate staff of non-commissioned officer spherical from the mounted handless of the service, and a complete establishment of matrices, machin,

farmers, and salutors

namers, and essuary.

(c) In my opinion, no furthed Lurope-ins would be negerisary, one Native to every three melor should be villowed, to be a second flower care. So write on source (?) A post of need be the only additional arm of equipment for the Europeans

For the Natives, each man should be supplied with a shoulder belt, waist, and sword The pattern assued to mountain batteries is one well adapted to Natives The Natives should also be provided with a canteen and havesack

(g) & (å) In Upper India the principal transport should be suite transport, and camels for the general transport only. In Lower India wheel transport might be more suitable, the country being

more open

The Government pattern mule saddle should be universally adopted with genr for leading conplete, e.g., substains, trangas, ropes and strups, proking G S A proportion of each of the above would be necessary to allow for the different decemptions of loads to be corred

would no measure to make not not exceptions or result to be curred.

(j) The press, pack wide is used by Government makes in the communicant is mell adqued to the rances leads that have to be curred but it requires great one in being lept properly clearly and the public good. Improvements in gibt to make 4th a small cest, whereby the reddle could be taken to packe with greater early, and be therefore bette able to be lept down. The puttern of large couldn't be in some of the monthum betterns, and hown as Coloned Hughes? A prittern, as more sample in its construction and buttle sattled to peak animals. The camel gatter is the sattle morehing in an one animals are the great of the coloned the packet of the property of the coloned the packet of the property of the property of the packet of th invariably in use, and answers its purpose very well, but the stuffing requires care and constrate renewing

Colonel H Gough Command ant 12th Bengal Cavalra

I have not enter d sufficiently into the subject to be able to suggest in detail such a framework of transport establishment as proposed in the question, but doubtless some arrangement should be made by which an army transport should be rendered efficient in time of war, with the least possible expense in time of peace. I would, houses, suggest that the transport service throughout the three presidences be under one system and administration, divided into four circles of transport corps, u. --

2 for Bengal 1 for Mauris

1 for Bombay (c) One ductior of transport attached to the quarter master general's department to supervise the whole four encle superintendents, and a subordinate officer under each, with a personal as istant to the ductor

Appendix IV.

(1015) (b) & (c) At the disposal of circle superintendents, each regiment should detail two non commismoned officers and two men for service with the transport. Under these men would be the usual detail of chondries, jemadars, drivers, &c , as non defailed with movemble columns

uses to commune, remaining univery, on , as now universe when more one contains:

(a) Director and superintendes residents of staff pry as may be hereafter stated. Subordinates,
European and Native should not receive certain staff allowances.

These men would not be entitled to other pensons than what they receive from their own regiments. (c) The Native establishment to receive a regular smt of clothing of a uniform pattern. &c

(e) The Native Scatissinant to receive a regard sain to coloning to a minimal process, and (f) Aimed with a tribust re-ordinary camp followers (f) On the frontier entrely males us far as pretently, supplemented by camels Lower down, when the tools are good, builded, carring (whicheld) for supplies

(A) As above

(r) Country curts

(i) The class on pad, as used in Native cavalry regiments, is best for all practical purposes

Captum M G Gerard 2nd Central India Horse

In peace, instead of commissional department keeping up corriage, this to be done by transport trun sleleton divisions of about 25 per cent of war facture being maintained. Wheeled carriage only to be employed, as a rule, but ununals to be tramed and equipped for pack nlso

(a) I (exptain or field officer per division)

(b) 1 1st class warrant officer --1 2nd .. per division 1 and "
2 and class warrant officers } relieved unnually 250 syces or drivers 5 milbunds I carpenter, I much l salutri, I smith (200 carts-500 animals)

for 2nd or 3nd class 3rd and 4th class, Native soldiers of 15 years' service. 5th, syces, temporary

> (d) 1st class 2nd , 3rd " 30 military pension already carned, 20 (war footing only) 4th 5th 5th , 10) (star sooning om) Syces, Rs 5 and Rs 6 and clothing

Artificers, local 1ates

(e) Loose khakı druli Hungarıan jucket, plenty pockets, for all ranks Europeans khaka helmet, brown cords and boots

Natives blue or khuki pugger and kummurbund pyjamas, Nutive shoes, and puttees

(f) Brown letther belts bruss buckles Revolvers for first four classes For syees light bill hool carried on waist-belt for defensive and foraging purposes

(g) 500 mules or pones, 250 carts, nothing but wheeled carriage in peace, as the most economical Three or four different patterns and sizes, adapted to various sized animals to be kept up All suimals to be trained and equipped to entry packs also, if need be

(A) Mules and tattoos of every size and description The weedest-locking 30 rapec i uzu tatioo, with one seer of gram a dry, will carry two maunds 20 miles or druw an elic loud of six, so we should not confine ourselves merely to an ideal stamp of pack animal, but make the most of the cheap, serviceable mater all at hand

At outset of a compage across the frontier, all would probably have to be employed as pack-animals tut as the road was improved carts could be brought on

(r) It is far preferable to have more small light curts, that can be easily helped over obstacles, than a smaller number of hervy expansively horsed ones.

I've mules and larger tattoes, very light Maltese or store carts, of at most 1,000 lbs , modified to fit.

the ordinary country ruts. These, with a pur of mules, would convey 1,200 to 1,400 lbs = 4 camel lords. Over almost any ground a cumel can traverse, and on the most ordinary country roads could average 31 miles per hour = double the pace of camels. When proceeding with troops in ordinary relief, has would easily cury the latter weight.

Whether shuft or pole draught is preferable seems open to discussion. Personally, I prefer the

For the smaller tattees we should try some modifications of country ell as and tanges. At a pinch they can even now util one or tao relators convey 160 to 500 like laggage seems country roads at double the proof to littled certs and both are expide of great improvements, bring ill related baggage. Whother single or double horness is preferable for searcher such such cloud by experiment

i) The Otigo, cut down from 27 to 20 lbs for larger animals, and the common Nature charfor titloos If the sund/a, or pad of latter instead of being one piece and resting on the withers is notic in separate pieces, and connected there by an arched tree (garach), it answers admirably, and can be made for Rs. 4 in any brain

It greatly quickens and simplifies leading, to have light, open panniers for store. These are leaded beforehand, and, being strapped together, are simply lafted bodily into their place on saidle, and require no further roping, &c , to secure them Brigadier General C J Godby I do not think it necessary to have our general transport estab-

Commanding Pumpab Frontier Inshment for the whole of India should it be decided to have a transport system separate from the commissarint (c) I would have an officer of the quarter muster general's department at the head quarters of each presidency in charge of the transports stem, with a subordinate attached to each division of the (b), (c) & (d) The nature and position of subordinates, their number and requirements, must depend on the establishment it is found necessary to keep up in time of peace

(e) Uniform suitable to quarter master-general's department

of f) British warrunt and non-commussioned officers should be mounted, and armed with swed and revolver

 (g) & (h) The description of transport suitable for the Punjab consists of camels, mules, bullocis.

and carts only while in the plans

(i) As any wheeled carriage would have to move on cross country roads cidinary two-wheeled

casts, such as those in use with field batteries, would be suitable, but the Native eart would have also

to be employed

(i) Pack saddles such as are used in the Punjab Frontier Poice for ammunition are the best I
have seen

Lecuteurnt Colonel C La Touche, Commandant Poens Horse The framework should be sufficient to provide for the requirements of the Netwe inflative, and all Bittash tongs composing corpor of such strungth as Government might consider it delivered to leep ready to march at a moment's notice for moveable columns or other purposes, and the whole of the arrangements should be removed from

the charge of the commissurat, and form a separate establishment with a military organization. The scheme I am about to propose may be somewhat incomplete in details, from the shortness of the time

for a force of any ten thousand new of all runs. However, and the respect to the sense of the country of the co

I have had to prepare it, but the general principles are as follows

Supposing, as an experiment,—say for the Bomb ty army—it was considered desirable to arrings

Native offers and turn commission of the cases of an analysis sturp who would be the best bone of the system, to voluntees hold out indiscenses of system on the medicard, thus good an common and ment of the system of the case of the c

coming was not sufficient from the crushy voluntous, such men would be matted to bring treatly from their villages to fill the vicinit posterious of silledars in the new co is, and my men in the infutive regiments who might have money of then on might be as for if they were utiling to become allociars of camels, twitces, &c in the transport service. It is publishly, nonpowe, that tensor meant of capital now employed in the commissanct would eccept

leaving their old reg ments, and intrest in the non corps, would be at fine hundred rupness cash, for present value of assumess in my regiments, B. 100 x 500 = 18 50 000 — 18 might confidently be and papied, however, that some of the volunteers would be cornered from or these assumes. In section, case, the capital numeriately available would be greater than the sum momed. If the capital feeth

Government service under the new condition

It would be as well if it could be unionged for silledars to understand as much as possible about the animals in which they had a direct interest.

Thus evailty soldiers would very properly be told off to the houses. Any mea numberly required coming from countries where cannot a bounded implie to told off to the create, and so from All the men in the transport copie to be subject, as in the case of existing unitive copie, to the ordinary of the trades of were but it would be as well at first, as in the days of the old megalic retails, to must the commoning officer while the moves the commoning officer while the moves the commoning officer while the contribution of t

departmental transport, it would at first be necessary to trust to the resources of the country until the reparaments consister, in women in more to enterwary to critic to the entermines or the country multitude now system not no otherwise medical critical and all taggod and had points were recognized and provided for Once to was fairly started, then the details of a nearest might be now-led out, and arrange ments sumfar to those recommended for the line might be considered. But it would of course be necessary for Government to satisfy itself that the arrangements for departmental and regiment il transport, which might be considered as the basis for any scheme for reform, was sound, before any plan for reserves, which would be the superstructure, as it were, was built on the top of it. The following estimate will water would be the superstructure, as it were, was built on the top of it. The following estimate well give a rough idea of the cost of providing regimental and divisional transport for a corps of the thousand men. The weights calculated for are for the regimental transport with the rate of 30 hs per man, and for the divisional trumport, including commissional stores, engineer part baseful division, and there days explores, at the rate of 40 hs per man, making a total of the 10,000 x 30+10,000 x 40 hbs =700 000 bs

The details of the establishment will be found in appendix A" attached, the total monthly cost

being Rs 31,686 It will be observed that the establishment as regards officers, men, and animals will be as follows -Officers and men

4 European officers 1 Medical officer 14 Nutrie officers 46 Non commusioned officers

270 Duvers 11 I'unopean officers' chargers

77 Riding houses

12 Pamers 5 Trampeters 125 Fighting men (silledars of camels), dismounted 120 camelmen

428 Syces Annals

510 Draught horses 200 Baggage pomes 500 Camels

Or a total of 537 officers and enlisted men 568 camp followers, meluding bazar and hospital establish-

O's total to 37 owners and times of the second meet and 132 number and 133 number and 132 number included of original field in the law cumit silledars would be taunch included solders, and would, with one camelinan, look after 4 camels. They would, it necessary, the oath. I need marrie on one of their camels. They would not seen to the second of their camels. They would not seen to the second of the secon with the mounted non commissioned officers not as an except to the corps when on service and would be was me moments and commissiones oncers to as the cut of corps when on service that from to a said ble for grant and obte determs in garmen. The weights ellicit to the carries and however it is pre-carb below that they are easily expuble of entrying it propelly fiel and event for, as they would be in multive proper—marges which would those for the said bit. In the cree of the wheeled carriage, to spare houses are allowed for the 4 horse wagons, and 24 for the 2 house cirt; to provide

for a similar contingency

If Government disapproved of the large amount of camels suggested, light carts with two pomes to draw them could be instituted for a certum portion of them, without in any way affecting the estimate beyond the cost of the earts, as a pair of strong pones such as should be kept up on the estimate beyond the jost of the curt, at a pair of stonig pour of state 4 should be 180% the not be allowance aggregated would and the salary 800 for a file curts were of a pley pattern. The inhorace for two pounts at exactly the same as for two cuneds. The cut is neight distant by the pounes would pure for the presence when the same as for two cuneds. The cut is neight distant by the pounes would provisions to men and forage to houses to be a desired as the salar the "elicities a stain herein a described in a rethy," aftern of the much permed control system. The cold patterns of two the controls made by the commissionst bear of gift in a suffered copy of the control of the down just day to ordinate with small politic means to the latter course of the control of the down just day to ordinate with small politic means to the latter course of the control of the latter of the down just day to ordinate the small politic means to the latter control of the latter course of the cold product of the control of the same and the same of the same two the latter course of the control of the latter course of the same and the same of the same two products of and is only satisfied with large profits. Moreover, while it is to (1 a interest of the silleday to talle the van is only sains in what mage plones mercover, while it is no the medical or the saintain to due to the specific over of his own maints contributed to offen think of thill but his month they can make only the so offen think of thill but his month they can make only of their contribute. The system recommended has how for many per fixed in the Article conclusion, and if it has in that herein, of the sources is due to test of expression time opposes to be no ration why it should not recoved equally well when applied to a transport corps. Ponce have been on the control way to assume the solvened equaty were their daying at the 1 transport copy. Forces were exert.

Forces from the control of multip, because if or an equation as good; insurping of multip, and in my opinion better their multip, and increase, they can be obtained in whendere will over the control subsection. But make the control is subsectived in the control of the scheme must be set all the existing expense. In connection with the transport department of the com-missions, which could not once be reduced if a transport system was established, also other stems in connection with the grass supply noticed further on in reply to number 11

Officers

L'estenant Colonel T. H. P. M leolassa Commanding Sel Sind

(a) I think there should be an officer (who might be the governmenter of the regiment) who should have the entire control of the transport required for the regiment. He should be required to I non the capabilities. (as to furnish ug the kind of curringe required) of every village within a ridius of 20 miles and, with the resistance of the communding officers

and the extl authorities, should have a list of the men of the vill era and the number of numbla they could emply ut a latera notice, and through the commanding officer of his regiment should a momenta notice, be able to get authority for collecting them, a list, having done, be should be able to once allot the number required for the different portions of his regreet to the men under hum who no told off for those various daties. He should also se am a certain percentage above the actual requirements under his personal charge to replace casu dities

Mature and position of a bordineter

(b) Under the regiment transport offices there should be an intelligent Native, able to speak and I see recounts in I nglish, and theroughly required with the lunguages of the country where the regi-ment may be quatered, and of the men with whom he would have to deal. His duties would be to (1018)

register the names of the owners of the transport animals and the number supplied by each. He should in the first instance furnish each owner with a receipt for the number of animals suppled, the names of the men attending them, and the rates agreed to be paid for the hire of both. He should keep a similar list as a record in his office. He should also see to the feeding of the manuals, and in fact exercise a general supervision under the European officer

Under this Native subordinate should be one muccadum for each department, a e-

1 for rations &c 1 , rmmunition and stores

,, regimental stores, men and officers' baggage

To these should be made over the number of camels required for their several charges. They should be held responsible for the feeding of the animals and welfare of the attendants, the serviceable state of the equipments, then preservation in working order, their discipline, regularity on the march, and timeliness of conformation to orders of maich

These mescodiums should approximate the contrast of the meson and the meson and the contrast of the contrast o ment of transport for a regiment would very soon he reduced to order, and a certain amount of disci pline, both of which are now conspicuous by their absence in the present system of transport

Men, European and Native

(c) I would have no European subordinates with a Native regiment, but in a European regiment I think steady non commissioned officers, with a small addition as staff pay, might with advantage be used

Pay and pension

(d) I think the head Native assistant might receive Rs 30 a month, with a pension of Rs 10 after 25 years' service

The muccadums Rs 15 per month, with a pension of Rs 4 after 25 years. The others Rs 7 per mensem, with a pension of Rs 3 after 25 years' service

(a) Good thick linen, woollen blouse, with blue kummerband and puggree, and a pair of warm kmckerbockers puttees, and Native shoes

(f) A good Native tulwar

Baupment and arms

Description of transport suitable

(g) Camels

Animale

(a) Camels

Nature of carts and harness

(i). Not smitable

Nature of pack-saddles

() The camel pakka

Major A P Palmer 9th Bengal

I would suggest four excles of transport, or four transport corps, for India-

I -The Punjab encle down to Della No No II -The remainder of the Bengal presidency

No III -- Madras No IV -- Bombay

(a) Officers—
One director, who might be styled deputy quartermaster for transport

Four cucle superintendents (assistant quarter masters-general for transport)

One personal assistant to the director and to each cucle superintendent

One officer to be detailed from each corps, British and Native, in India to be available when required for transport duties

(d) & (e) Two non commussioned officers and two men to be detailed from each corps, and one non commissioned officer and one man from each hattery, for transport duties Officers and men to be relieved unnually if possible

All chowdres with chowdres, jemidars, munchis, and salutines available for service with transport

corps in India to be registered by circle superintendents of transport

(1) The director (or deputy quarter master-general for transport), Rs 1,000 stuff salary, heads pay of raul

Circle superintendents (assistant quarter masters general for transport), Rs 500 staff Personal assistants to director, Rs 500 staff

Personal residents to directly his bodystant personal resident in the personal resident is called supermendents, Rs 250 staff Regumental transport officers at Rs 30 per mensem while employed on nettral transport duties Non commissioned officers at Rs 8 per menseur and men at Rs 6 per menseur while employed on transport duties, and their heirs to receive the next higher grade of Tumily pension, should the men die of be killed on service

(c) Transport non commissioned officers and men to wear a bridge on the arm marked "Transport" Liu Hed attendants to receive one blant et cort and trousers, putters, Native shoes, and yellow turban, and a blant et or waterproof sheet

(f) A fully to each enrolled attendant
(g) & (ii) I er the Punjub circle, mules, Kuchi and Pahwindah camels, and camels bred north

of the Juclum, and pack bullocks

(1019) Appendix IV

For the Lower circle camels and pack-bullocks (bunjames), and in Assam, coolies Where stores have to be carried long distances, coolie-carriage is obviously useless, as the men eat their loads in a

I have no experience of the carriage suitable for Madris and Bombay

Only Palminds, Kuchi, and north country camels should be employed on hill roads or beyond our old frontier, the down country camels being utilized in pushing supplies up to the bases of operations, otherwise the enormous casualties of the late Afghan war will be repeated

converse on enounces constants of the new logace war in a requester.

(i) It is advisable to intain the Indivi Indi typ for many resonse but carts should be under commissivate control, only peck-cumasis being under the transport department, and the commissional required is at present to deliver the supplies by rul and cart at the farthest point that can be reached by wheeled carriage

(i) Baggage pack saddles should have no trees. The Indian rad has always been found the best for service wherever it has been tried. The Otago and other pack saidles made with trees meet all requirements when fitted to animals in good condition. But ereat, galls when the inules get thin and spare as they must dways be expected to become on service

The Ind un pad might be improved on, but its principle should be adhered to, as it fits to the baggage-animal's shape be he fat or lean

Colonel H S Obbard Commend.

I should say the best frameworl possible was the commissariat department as it now stands supplemented by regimental quartermasters one non commissioned officer per regiment, and one man per company (these suggested by me m answer 36, Native Army, for employ instead of tindal and laseaus) a certain quantity of carriage being at all times kept up as part of the regimental equipment for couveyance of aminumition cooking-

vessels &c. This would be munitained as purt of the movemble coloron under the commissional, but expensionaled and exerceed regimentally. This earnage should always be pack, and suited to the esperatement and error end regiment my TI is carriage should always be pack, and source to the country in which it is to be used. Furst and second leasure assummation for cavalry and infantry should always be carried on mules pointed or bullocks. It is so much more easily got at, and the animals are not so conspicuous as elephants or camels

In the fulls cooles would of course be employed A certain number should be regularly main-

tamed and trained tamen are trated

(e) Commissional department supplemented by quartermasters but as commissional officers are
apt to degenerate into more purreyees. I thus combatant supernitendents should be appointed, as officers are appointed to other departments of the staff

(b) As at present. (g) no so present, supplemented by men of each regiment as increased in first portion of roply
(g) As at present | lat care to be taken that men who become cartiled to pension should be young and thoroughly able bedred when enlisted and that the ranks are needed pe sed cally, in view to the discharge of all who become physically unfit for work. This would be an important duty of super-

(e) Officers and soldiers as at present

With respect to non combitants who have hitherto not been supplied with clothing it would be a dended advantage to put them into uniform but the expense would be very considerable. The blue gray losse coat worn by lessears, with a badge worked on the arm would be the best clothing for

While on the subject of clothing I would mention that it is much required for Nutric doctors Moderal purple are provided with it and why moderal substitutions of the higher gives who serve with the army up not allowed any is difficult to be understood. Then pay is yet very small for their

off non-protects.

(7) As to precent But all soldiers employed on transport to have short rules
Under this head I may mention the utten unsuitabelity of the same of drummars and musicana, The matter and a may measure to these customers or to make so commence may be measure, who, in other mag that we to be suppled in everyong reserve assumations. They are wised with sweet of two descriptions—one very old field need sheet a feet long and neather madful nor other madful, the other of nea magnificantly less useful and commencial than the other two morning a man a energies have to be greatly directed to the resta at of this weapon. The hilt destroys his instrument, and the blade gets between his legs and to ps him up mers and mus ctans is a curbine or short lifte, ordinately slung on the back The proper weapon for drum-

dens see times than in a returnee or since time, occubantly sincip on the men.

(s) In a company, carriage of every description is required—rail, bullock fatts, country cart, telephanis carols, make & better and cooles

terpants; concept, means no coveres was covered.

(3) Lvery in doctinually employed the denaght and gack carryage

(i) Carts drawn by billings, for which harries is nanocessary, except on metallied roads. The

commany country cord is the most as full wall as a expensive. Very light humbor finance on wheels, drawn by a mule or pony would be very weeful for conveys see of wounded men

drawn by a mule or pery assist to very world for conveys are or wounder men.

(f) Have no collisis, use which can at all times to proving
I have intelly recovered from the externo departments exercil rum kaparahs for the curange of
circosing tool. But they no unaccompanied by pack scalible, and the mass of so tilles has not been
subhared. Try the not appear intended for crimery saddles, and for the time they are consequently

Colouel F Drade dge Command mg 4.4h Aptive Infantry

I am not prepared with a detailed plan but give my opinion generally, I am nos preparero a use a securior may one grow my opinion generally, that a transport department enteres; melependent of the commissional that a tended be agranted that a should be agranted that a should be fally officered and supplemented Several no engineer, the near of which should be properly clothed and by a coule cope, the near of which should be properly clothed and composit that a sufficient a under of transport annuals (make packbulleds, and pones) for the moving at short notice of at least 20,000 outness, on pouncy, for the merring to some number of an iona support men should be lept up in the ventuly of the frontier striton. A percentage of such animals to be used, in price time by the

commissionat and the Government departments and also belet out under proper supervision to privite individuals and companies also a reserve for above number should be arranged for

Locationsni Colonel H Worsley, Command g 7th Native Infantry

The purport of my previous unswer is that the system of mercable column requires reorganization and that a certain amount of regi mental transport should be maintained by all corps. To effect these measures without any great increase of cost, I propose-

I —That moveable columns be in most stations abolished, in others reduced, and that the personnel, &c , now maintained be concentrated at a few great stantegical points, such as Quetta, Kolat Pindi or Peshawar, Moolian Lucl now, Assam, Poona and Secunderabad, the transport at such sta tions being organized so us to adm t of great expansion in case of large operations

II -The cost of regimental transport to be met as suggested in answers 11 and 16

(a) For each transport depot it the great strategical points One or more commission officers, independent of all local commission duties

(b) In perce departmental warrant officers, supplemented in war by non-commissioned officers from the carrley and utillery

(e) Low caste Natives in full proportion to the number of animals maintained

(d) Rather less than that of sepojs

(e) Semi military to scenre uniformity

(f) Puroperus swords and revolvers, Natives tulwars

(g) Il leeled carriage only to meet the exigencies of the ordinance and medical departments Remainder of permanent establishment to consist of pact animals except in Assam, where per haps a small dulled coolie coaps armed with carbines might be montained

(1) At each depot, those most suitable to the country, and the nature of the operations in which

they might be called on to tal ca share

(t) Ambulance and ammunition carts only to be mantained, except of course where a Govern ment bullock trum organization already exists, which is no burden to the country

() Have no technical knowledge

Pack hanness for a considerably greater number of animals than that permanently maintained should always be kept in store, as, though animals could always be impressed, time would be required to obtain suitable equipment for them

Lieutenant-Colonel P B Norman Infantry

I am of opinion that no scheme of the hand indicated could be Command og 24th Fumab Note carried out, except at a large annual cost. I consider that all that is reanned-but this too would involve expense-is to increase the more able column establishments at the puncipal military stations. I con

sider that a very slight addition would meet all probable demands for internal warfare. Increased rulway communication and an increase of general prosperity will increase the wheeled carriage of the country as witness the increase of wheeled carriage in the Punjab sace at came under British rule. If I am right, it only remains to devise a scheme for external warfare, The cause assess section rule 11.1 cm right; to my remains on which is section of extent or many and I thind that it sherely appreciate is made caused and made will alrays be for theorang in a silberal numbers. The great wants is proper super; usen over the transport animals, and for this purpose I on the consider it necessary to me attain a large European and N site establishment due in times of year. The remains in peace can be led of drifter by the cammissiant department. In time of my, I would appoint in officer of the commissarint department to each division of the army. His cole day should be to supervise the transport of the division. He should have under him an intive subsition for his personal assistant and isobolters for each brigade. A European non-commissioned officer should be appointed to each division of 100 minutes baying under him two. Native non-commissioned officers. and four expos. The driving to be drived in the but driving to the driving to the but driving to the extents, every animal to be bruded and with a number, and the non-commissioned officers and spops to always accompany the cattle of their sections when sent on convoy duty. The subsitiet efficers the J proposal and Native non-commissioned officers and sepoys to be withdrawn from regiments not employed on the particular service When transport cattle are made over entirely to regiments, the above supervision would not be requir

The Native noncommissioned others and separate whilst employed in the transport department to be atmed with a curbine and to early 30 roum is of ammunition. The extend and made must be to be atmed with a curbine and to early 30 roum is of ammunition. The extend and made must be to the curbine and to early 30 roum is of ammunition. aimed with a short sword not the old justicen light canalry swords with steel scabbards that were served out to the camp followers of the Kimber force

All camel and mule men to be clad at Government expense in clothing suited to the climate

I would suggest that a transport department be kept up. It should Licutenant Colonel II St G Ticker Hist vatue Infinity lite Supers feeling, Transport Trans be a quite distinct and separate deputment from the commissiont, and Supers ten lent, Tra 41st Antere Infantes be under the immediate orders of the quarter master-general of the

army In the time of peace, it would only be necessary to leep up a small permanent establishment which could be easily increased in time of war by volunteers from the arm). In the late compage the transport department was at first under the commis and Great friction ensued, and the system had to be abandoned

In time of peace the transport department should consist of-

(7) Officers -A director, who would rull us a deput, quarter master general, a personal assistant to the director ranking as an assistant quarter master general, and tour superintendents, and ing as deput, assistant quarter master-general. These four superintendents to have change of the four Fromnes, 11 , Punjah, North-West Bengul, and Assum The dities of these officers would be as follows -

lat -The director would have the entire control of the transport department. His duties would le to find out all the resources of In his (Bengal presiding) for trusport, recurring reports from the different superintendents of the different provinces. He should draw up a set of rules for the (1021) [Appendix IV

irraport department, entering 100 the number devil of everything regruing the working of the from the pay of the submissions the second foreigned per themsiles. He should have the top me of the composite themsiles. He should have the open every interest to the species of the submission of the species considerable and the species of th

age for medicate numbing surves repairing roods, pringes, a.c., a.c.
In time of peace his office would either be it Calcutta or with army head-quarters

2.6.4.—The piercoal assettant to the director should be a mun that the director between the last partie (and there is no direct to the director and the control in the partie) and the parties and regulation, that they would have always to be depether. It is therefore a matter of great supportance thanks there (rectually a first) should be about to choose he was represent assetting the control of the control o

unto the property and the property of the whole of the carriers in the prompts of with the property and he represents to the discrete for the meragement of early thing connected with the frangent depotiment in that province. They should be in communication out it, the district officers in their province. They should be in communication out it, the district officers in their province. They should be in communication out it, the province provides procurable in their relations of the common of the receipt out they are provided by the contract officers in their province when the amount of early get for our province are should have the content formed of every particular, and send him articular strength out condition of the common carriers of every state our material sends and the condition of the process of the common carriers of every state our that provinces where carriage is hely up and they will be responsible as to its efficiency. They will report to the director that strength and condition of the amounts of the contract o

He—bend out super nicodents—He is could be mixinged, it would be very destrible in time of price to him e one weather sequentiation to the outside the superintendent is so that, when the sequentiation we can be superintendent in the service or view and no other duties the assistant conjugate of the limit in time of nor there would be assistant conjugate outside the value in the case who would be formation with all the ratio and rapiditions forms of each attenuate an intellined. They would be formation with all the ratio and rapiditions forms of each attenuate who may be able to each other the second of the same, and the evident attenuate being all of one form, it are should be not defined as the second of the same, and the evident attenuate being all of one form, it are should be not defined at the second of the same parties of the more title of the mace arrange of the different at those I By would be professed in charge of the more title of the mace arrange at the different at those I By would be professed as the case of the second of these experimentally, and should report executing to him regarding the carring to make their orders of their experimentally, and should report execution for the second of the second

the station on a station order from either the assistant quarter master general or assistant adjutantgeneral, and see that the carrage is properly returned, and that the animals have not been overloden or been in any way injured

(6) Neture and position of subordinates—It is difficult to mike any remarks about this as in time of peace only very few would be required for work with the movesble column. In time of use, with pick numeric, bulled, carrie and cookers, Nutrie subordinates would have to be centertained as chowdries, naib chowdries, jemadars, &c , and it would be a very good thing if some good steady. European non commissioned officers were allowed to join so as to super use the actual working

(c) Men (Luropeas and Natus) - Both Luropean non commissioned officers would be mest useful to supervise everything, the Natuve subordinates would be held responsible that the orders

were carried out

(d) Pay and pens on - Entopean non commissioned officers to get from Rs 20 to 40 a month extra to their pry and free rituos, and could get their presents as belonging to the tree Very few would be repured to be kept on the permanent establishment. Those that I had I see he was not made to the tree trees on might, when returning from the service on the permanent establishment. Those that I had I see he was the country of the product of the produ on might, when recalling road and see service on the persons mer ware entries to it any rind once point, calling good and long service, research from Government's spatially one or the syets) by Regard mg Nature subouldrates, they would recent such good pry that they would not require persons. They would be prival exceeding to their postures be remained, benefore sould die mit his 10 to a month last out of this they whould be made to keep all the geturn northing order, and keep number or Nature nature to keep "I have been consumed to the processing the consumer sould recent the 8-5 of a numbal and or Nature nature to keep "I have been consumed to the processing the second of the second of the substitute of the second of t be answerable for the good condition of the currage under his charge paying for all medicines for sorebacks, &c. Jernadars Rs. 20 a month. Survans, muletoes &c., Rs. S. a month

(e) Clothing — In time of peace the I unopen subordinates would receive their uniform, fire rations and quarters, or compensation in heatthereof from Government, but in time of war they should

be furnished with a small tent and a waterproof sheet

Native subordinates in time of perce do not require anything to be given them except in stations where carriage is kept up, and then lines might be built for them near their animals. war they should be supplied with a naterproof sheet, a cost, a pair of pajamas, a pan of boots and a blanket

(f) Equipment a and orms —These are not required for Natine subordantes, as in the late Afghan war it was found that they were unterly useless to the men
(g) Deer plans of transpart as table as dead, part cooks, \$c —This greatly depends upon

the country to be travelled. If nossible, whice curriage is the best, then pack animals, and lastly coolies

(A) Animals to be e playe? —The best animals no doubt for transport are mules, but they only carry two maunds second, pomes, also two maunds, third, example, currying four maunds, fourth, pack bullocks carrying two muands (bullocks however over stony ground require to be sholl), fifth elephants, carrying ten maunds, but these are very delicate animals, requiring the greatest cure, and it is very expensive feeding them

(1) Nature of carts and horness—Carts should be made of the very lightest and yet strongest pattern. The Maltese carts used by General Phayre in the late Afghan war were of a capital pattern. pottern. The acutese cute issue by testered rays is in the 110 argams my were at viginar particular and ald accrellent service but what would be of said more use, would be light cuts, much on the tunn which would be bed-up that they arrang the atoms from being spoilt by run or lastly that The tunness should be the back Can prope bringes and make to the tunness that the tunness about the the back Can prope bringes and properly make They should be very carefully made. They should be very light, still well-pointed, and make fit the annuals, otherwise they will get serviceds and become the properly and the still properly all the still well-pointed and become the still properly and the still properly all the still properly and the

useless

Mayor S r B P Brounded 40th Native Infantry

I am of opinion that in time of peace it would not be necessary of advisable to mustain even the framework of a transport establishment as regards personned. The regumental transport system, the introduction of which I recommend requires no special establishment to work it is

for may purpose would obtain it direct through the evil authoriaes. But in time of mar specific section and forces there are received the evil authoriaes. But in time of mar a specific section would of course to necessary. Therefore, which is review required in the times shall be published such a sample and complete code of rules and regulations for the organization, equipment. and constitution of a transport service in time of war, that any officer suddenly appointed to it could learn at once what he had got to do bow to set about it, whence to obtain his carriage and supplies which is downlasted to criterian, what offers to gen them, whit per by gas them, visit has been seen to be them, whit per by gas them, visit has been as executed to keep, and so on. This is ill that is necessary. These would have be any difficulty as obtaining earning. Recent eyestement has sufficiently demonstrated that these would navir be driven inconcentage on that keeps. Where delay and confusion arrays fand do tree in this Afghan where offers and and surregisted in the temporal has the out-off defined dataset out responsible to I am the temporal has not excluded dataset out responsible to I am the temporal has not excluded dataset out responsible to I am the temporal has not excluded dataset out responsible to I am the temporal has not excluded dataset out responsible to I am the temporal has not excluded dataset out responsible to I am the temporal has not excluded dataset out responsible to I am the temporal has not excluded the contractions and the temporal has not the temporal has not excluded the temporal has not the temporal has no enclose a separate memorandum selting forth in some detail what I consider to be the proper duties of each transport officer and subordinate, and rules for their gradates moder all encumstances. Hery no of course open to modification on many points. I it I submit them as the results of my own experience of the course of the co graned in this last campaign. They are enlarged from my own notes made on the spot.

Major A. C W Grookshani. Commanding 32nd Prometrs

In the replies to other questions I give my ideas on this subjectionally I consider that local currings should be maintained to t ertent advocated in answer 12 and this carriage should be apportion to the remens stations according to their power of utilizing it, and some stations according to the chine so of war. This carriese slould

node an officer, warrant officer or no commensued officer of the commensurab department, who protected is used to be charge of the local commensurable formants are in local commensurable for the com transport is, and when he can lay hands on it

The carriage should be freely used in peace, and, on war breaking out, made over to regiments or drafted off to the base of operations

Replying to queries

(a) The officers would be the officers of the commissanat department

(d) The Native subordinates would be entertained by the commission department and be enlisted under the Native Attacles of War European subordinates as at present Assistance in the subordinate class to be obtained from Br tish and Native regiments

(c) The men, ze, dravers and attendants, should be enlisted for all Government carrage and all be placed under mates, muccadums, jemadars, &c., and be regularly trained to their duties, European panets duct makes, nuclearments, permanents

(d) The pay and penson to be under commissanate rules (Civil Penson Code), that of cattle
attendants being regulated eccording to whether the emirage, is purchased on hired

(e) The cioth ng would be the commissanat uniform All Native establishments to be dressed as the followers of a regiment in lungs, khaki blowe, khaki pants, putters, Native shoes, and a distin

unshing bedge
(f) I or equipment and arms that of the Daropeans would remain as at present, with the addition
of a revolver. Natives only require a brown belts and a country tulian.

(g) The description of transport must vary according to the locality and the transport available The breding of manifestimate of commercial control of the properties of the properties of classifiers attained the control of the properties of classifiers should also be manifested for peace tiansport out, above all, a very large proportion of mules, which should be divided among the veness full statons, and there employed in water and other transport. A three about 1 be enlisted for general service, be attached to hospitals for perce duties, and drafted when war breaks out to regiments proceeding on service, substitutes being locally entertained.

(4) The annuals are mentaned in repir to (3)

(3) The annuals are mentaned in repir to (4)

(4) The grands carte: a hight cut should be constitueted and generally used instead of the ordinary country cut, which is some places use of a holf prittern Component prits should be heptin stock and moved by train to the basis of governor cattle for them being locally entertuned or transported thence in trucks. The country cl. / should be largely need with pony transport

(j) The present pack-addle is as good as one can want

Lieutenant-Colonel J. J. Boswell, Communding 2nd Siklis

My expenence does not take me beyond the Punjab. For this part of India I would suggest a cattle establishment of camels and mules be attached to every Native infantry regiment, the same as obtains on the frontier, the communding officer being held responsible for the annual being propelly field and caref for This would accustom officers and men to the cree of tagging amonds the establishment to be available for Government and private purposes, the latter on payment), but to be equipped and fed under orders of the commanding officer

The number of animals attached to each regiment would very in number recording to the duties required it the station where the regiment is located. Thus at Peshawar and Perazepur, where there are arsenals, a larger number would be required than at stations where there are none

Commanding officers should not through their transport officers, each of whom would virtually be the superintendent of the transport for the station. Where two or several Native regiments are located orders for supply of transport for convoys to be assued by the senior superintendent of trans port For the whole province there should be one superintendent of time-port, whose duty it would be to respect the transport of the whole province at least once a quarter and to bring my defect he might notice to the notice of the communding officer under whose charge the un mals were

A list of private baggage-animals should be left up in every distinct office, compiled from lists supplied by this is (she collectorized), and in the vent of it being necessary to augment it officers ment triapport, the number of nameals required should be requisitioned and bought by Government

through the general superintendent of transport

Transport officers of regenerate not proceeding on servee might be numerous with parties of robberts to at an impostors securing a sift whyry of Rs 5 per month while so employed. In the shears securing a sift whyry of Rs 5 per month while so employed. In the shears of a transport officer from his regiment, the attaces would be perfound by a wing officer. In a tew years Government wonly passes a valueble shalf of afterer accustomet to lock after and imangle happeng animals. I behave no Adjustment not of the bet- officers of the transport trans belonged to the Punjah I contier Force

(a) Officers —One superintendent of transport for each province. One transport officer to each Nature initiatry regiment

(6) Nature and position of subgrituates —One inspector (Native soldier) to 100 inimals.

(v) After the pass one of passer tenter — Use an appearant person passer to the variable of After the passer — It is a funisher. It is a fermion for the passer on the passer of the passer on the passer on the passer on the passer on the passer of the passer on the passer of the

(e) Clothuq -- Drib (Lhala) blouse and kmckerbooker trousers, drab turban, blue fringe . putties and Native shoes

y ; quip est and arm — Netwe take it with shoulder held and wast-belt, brown leather (f) Decompts of transport acidely, wheeled, past, soile, 5c —On the Funylo fronteer pack only, (f) Ann also be en played —Orando and multise.

(b) Ann also be en played —Orando and multise. Addres of carle and deruses - Carts could only be used on good roads, which do not crist in

the hills (i) Nature of pack taddles - Ordinary Pumpibi pales for camels and Native pack saddle for mules

L cutenaut Colonel F T Bain be dge 4th S klis

I would suggest that instead of Leeping up the supply of trinsport as at present under the commissionat that cominge should be given each regiment of the army of the Bingul presidency to be looked after by the quartermaster in times of perce, as follows --

	Camela	Mules or po
British Carrilry Infantry	60	50
(Infantry	120	80
Batter es Artillery	80	25
Natave Cavaby	20	20
Native Infantry	55	40

This curriage would be available for woil in cantonments, commands, detachments morning, binging in supplies from distincts. It also could be used by the department public works, &c, and when not other size waterd fet out on hire within presented limits.

It would also be hable to be dia on from in times of telest, one regiment supplying another to make up full complement for a march, and would be sufficient to move a regiment in lighting order for

A co 3 days expedition

I would also suggest that a large reserve of animals purchased be lept up in distincts made over
to the civil efficers to be hired out for trade &c

Bullocks and cuts to be used as bullock trams on any road where there would be sufficient traffic to pay would also be a good reserve Where camels could not be used as in Beggi, cuit or wigons would be given to the regiments. I think cert and wagon can age should be used whenever root can be made in preference to all other. It curnes meet, and forms to own determe against intich, by being hargered

(a) The whole to be under 1 director general, 8 directors of cucles or distincts (each ericle the same smuketry enclos), with an assistant officer Desides tims, office a from regiments qualifying for the transport would be attached to destance.

(b) Native inspectors to be taken from the non commissioned ranks of the Native umy, also the Native army would supply sepoys to act as duffadors in the proportion of 1 to every 20 drivers in time of war 1 to 25 in time of peace
(c) I am of opinion that Natives only should be employed as transport drivers, to be compared

chiefly of Purnabis (Kuthris, Sikhs, Pomabi Mussulmans, and Hindus) in following stale -

Peace footing-

The men to be of good phy sique Pransport duty in time of war is very additions and fatiguing, and my man will not do it requires strong men and of a certain height to load and unload camels,

In order to have a reserve of trained men (and untrained men for transport are a grand mistake), they might be enlisted for three years, but any man after one year (giving a substitute) might leave on a actioning fee and go into the reserve. All these reservemen to understand that all or my are liable to be called on for service at any time

All might, assemble once a year for a short period on full pay to practise and keep themselves up to their worl

(d) Pay and pension of rank in army for inspectors and subordinates, with an appropriate staff Drivers pay the same as in the cattle establishments of the Punjab Frontier Force, and pensions for wounds of to family the same

(c) Khaki drill jumpers or blouse jumpers, trousers loose and to ankle only, where they should be ghtened in , pugices of some distinguishing color to mark. 'Transport' , a good blanket and strong Nature shoes with nails

In a cold clussets, add position, patters, another blank of, and small trapaulm
(f) Letther want belt with bug and frog haversack, where its, chargel (small mussuel) to be
cannot under belty of prick amond, and there parts of good stout cost

Inspector, 't thirt and instell (the inspectors might ride a space pred pony), sal ordered short ender critise and sword lasted (the inspectors might ride a space pred pony), sal ordered short ender critise and sword loss of the inspect (in Alberta Inspectors might ride a space pred pony), sal ordered for mes to have a light of the pred pont of le trught the use of them as a weapon of defence

(j) and (h) Curts and wagons, camels, mules, ponies and bullocks in the plans (also elephants, but they might remain under the commissional) in the hills mules pontes, bullocks, and sometimes camels any angus construence of commerce of the means makes pointers outlood 8, that sometimes control

Bullocks in the hills are very good to every grown and fodder, and can be driven in herds of 10 and 12

by one man, if ev do not every other loads well

Cookee can also be employed in the hills, but, unless hillners, are not much good

'(i) I have had no experience of ragon transport, and cannot suggest mything. Harness should be as sumple and strong as possible, and have breast-bands in lieu of collars

Bullocks would be voked

(1) Canels—The common pala generally used Mules and pomes—The best saddle I have seen, and had practical expenence of, is the Olige, but it should be smaller than was generally used in Aby sunt, to suit the animals of this country. I have thoroughly trial saddles of all soits and have thoroughly trial saddles of all soits and have come to the conclusion that the Olizons debest It is early adjusted, easily and securely laden, and landest to the animals, it who has the ideantage of being a good riding saddle for sick or nounded men

The saddle with the iron cradle now chiefly in use is also a good saddle, but is very upt to be shaky and ricketty on the brek, and also to purch when the animal is hiden for a long stretch

Major & G Ross 1st Shbs

I connot answer this in detail

It is impossible to keep up a complete transport establishment fit for war in peace, Int Government could settle how many transport centres they want At these I should keep up troops of mules the only animals

inty wine. At those I sureme keep up tropped mannes—use conj ammune in road with in this wij. I would have not pit toop of 25 or 33 ammune scal for sung skeleton trops to be filled up with numbels to 160 per troop in war. I would keep the permature complete and dankedras half complete, at one pennature and two daffinders to a troop. Here mean would share have training, and on war bearings out, I would complete the duffadars to four per troop by promoting two constantly employed muleteers record of computer our constants to once per coupling not constantly employed moletices. In peace I would have multiper to three mules, r.e. eight or ten men, and m a or I would increase these by men of suitable class accessment to mules, i.e., Ammars Brugares Lotennes, Abattices, &c. The new men would soon learn under the skilled gemedat and duffadans

Officers -In peace two officers at each centre depot, two non commissioned officers

In war one officer to 1 000 mules

One non commissioned officer to 500 mules Len troops at 100 each under each officer

Ten jemidais (ill ready)

Forty duffadors (20 ready and 20 promoted from skilled muleteers)

Muleteers 10 rendy, fill up to 34 at 1 to 3 mules, to 50 at 1 to 3 mules, which is far better The above touches on (c). (b). (c)

THE ROOLS CONCUED OUT Sold Sold Sold	Per meason	Per messem
(d) Pay	Duffadar	10
In peace remadar	15 Muleteer	6
In war to be raised as necessary acc	solding to the service required	
Реизнож—	Deffeder	6
Jemadar	10 Muleteer .	3
(e) Clothe g -Stout blotse and Line		
f en or	de i	

(f) Equipment and arms { sworus } for all

Jennidate, duffidates, tendence also

(i) & (g) My tennuls apply only to mules I would not keep up any camela, carts, donkeys, or bullocks I would contact for these as wantel, using country gear and packs

 I am not up in carts
 Pael saddles, rules — I beg to append a report by me, No 12 Q M dated 17th March 1879, to Assorbut Adjutant-General, Punjab Trouber Torce which shows my views on mule puch saddles both for purely military and for commissariat word. (See subsidiary note at end of answer.)

No 42Q M , dated Jellalabad, 17th March 1879

Prom-Major A G Ross, Commanding 1st Sillis,

To-The Assistant Adjutant-General, Punish Prontage Lorce

With reference to No 368K ,* dated 23rd Vovember 1878, which forwarded copy of letter, dated 17th October 1875 from Special Committee on Artil-* Fro a M ! tary Secretary Pu 13th Concern neat lery Equipment to Adjutant-General in India, and in reply to your No 519C, dated 11th current curentstang copy of Colonel Birel s No 480 dyied 28th Tebrury 1879, with copy of my demy official letter, dated 2nd January 1879, to that officer's address,

I beg to state as follows

I fine shipset of fixed spidles is a vexed question. Some prefix a cherg, hight, sample saddle,
I fine shipset of fixed spidles is a vexed question. Some prefix a cherg, hight, sample saddle,
lated than
Interest the spidles of the sample shipset in the sample spidle spidles and other continuous of the "double had look of the spidles packing saddle of the patterns used with hooks and longer strips.

If I have not enough expenses to treat of each hosen, pattern of sabile seprentially not does space and time within 40 has bell will survive some sensities on the too types of year, while referred to may precious prograph. In my precious of prograph and precious prograph and precious prograph and precious prograph and precious prograph and precious prograph and precious prograph and precious prograph and precious prograph and precious prograph and precious program and p or frameworks it is true, but which seem to me to be

of a special type, possessing many advantages, and per-haps only the two disadvantages of weight and of a decided tendency of their leads to ship and slide on ascents and descents

Different pouts from v1 ch puels we use ved.

III People writing on pack saddles view them from the standpoints of -

(a) private use by travellers, &e ,

(6) use in the feld by regiments and hatteries,

(c) use by traders in hilly countries,

(d) we by the commescariat and transport departments of an army in the field for stone and provisions My remark, sefer merely to the service of Govern

In the letter a coval from point of use of Govern-toom struce. To mail 1880 ment with an army in the field, and I would point out that this Government service is of two main I mids-(a) carriage of ammunition, military stones, regimental largeage with the troops, and again

(6) carriage of stores, and provisions by the departments of supply
I allow that it is probably a very good plan to have two I indeed saddles in use-one for permanent use with troops for the many purposes and verying kinds of leads required by troops, and one for

use by the supply departments for the carringe of provisions and fodder and such like store. I think the latter hind of peek may be of a cheaper slighter kind, but for the permunent use of troops and for inher and to prox may our a compiler sugarest state, for first the permanent use of troops and for such purposes as the carriage of anomanators, men's behings, feels, tests, britter chros, sugness test, stores, &c. &c., I fam's Government constantly burning to curry on sure an inly countries are processed at horoughly storage, durable, lesting addle on to which look can be so belond that they are addless the surface of the pesses a convocative second, warrance, results states on to brain from the to so Indianot that they attended they of their and skirt to an approach on which the mules on travel: While fall of temp seconds and descends use the places according to which pack saddles must be origing in plant constructs cannot are prefet which to mules and if only the reads be good enough, eart carriage as prefer this to all kinds of pack amerila.

Party is paids and modifiest ons. Their advantages six IV The advantages of packs of the type of the Punjab pads and its modifications we-

(a) Cheapness in manufacture (b) Lightness

(c) I acathly of reprir in most Asiatic com tries

(c) Crashity of being understood by rough and untruned drivers
(c) Leality of carrying sprie packs required to replace losses
(f) Reality afforded by it to mulesters ruing the mules to water or for forage

Punjab pads and modulitations Their disadvantages The disadvantages are-

(a) Want of strength to resist rough usage and ill treatment

(6) Want of durability under exposure

(c) Difficulty of securing loads on it in ordinary rough ground (d) Impossibility of doing so on really bad ground (e) Want of some stiffening material or of some framework or tree to resist the pressure on the rollers, of the salcerth Luct, or of the weight of a muleteer riding on his pack to fetch

intege, we Then distingtive cannot be found for the following the follow

Saddle recommended for parely unlikary operations Pack sublics

of an army But I would urge that for purely military purposes Government should possess a better sort of saddle A saddle capible of resisting for some time without repairs the we're and terr of hard service. A

anddle to which loads can be fastened so securely that they cannot ship or shift unless the suddle-garth looses or gree way and I mantion that for these sets some pattern of solid), is required which is used with books or gree way. And I mantion that for these sets some pattern of solid), is required which is used with books and loosing straps and which is used of strong during the instruction. Money spects on the manufacture of sects is well last only and it is worth which for Government for more manufactured by the manufacture of such better and supremare addles. The exact pattern would have to be selected. by men recustomed to make pack saddles, and in their maintreture arrangements could be made to reader them suitable for riding purposes at a walk. When required salestake can always be need with such puels

In multirry operations over difficult ground it is of primary may ortance that it is leade of an Stated of the mode on a he is mail larg opened or a measurement of the first and the mode of the heads and the mode of the first of the first and the mail as constructed with timestar balance.

bit setted another and unbiasers are circular as one truthed with termis such the rest. As it is, everytuming as the termind and their intendential well accept, and the extra delay cancel by readjusting brids is intolerable. Nothing cessures steadment of the load was books and bringing truther.

The true maps proposed by the Small. Committee on the feather pad not, I feet, not sufficiently will save the load from fulling of both with all their on scenarios and descents, and have to be to adjusted. Suffectively, however well paid and took, however well among our most again stangers steps. appared Superary, poserver wear per cer must not, powerer west gainer, we most aggin saling so vices generated and executing over one collection, or certain content, por certain content, or certain content, or certain content, or certain content of the properties of the modely, and gover dalary in forcest, the south of the panel rate, and after the bull and gover dalary in forcest, the south of the panel rate, and after this bull ford. In principle, such as the certain content is the part of the saddles, unless there is some chiffment for the world in rationary or content, and the part of the part o very short time too) bruises the animal's Incl. Bruish and traders marel i g at their case and on very more come two orders the naturals area. Constitute was traders moved by the message and of these own will constantly remedy the message. But a multity operation them constitute was the same of the same and to not be flashing else. The many members with energy to add to a certain object and the longage follows as it best on. I do not slinds to the heavy energy to distinct excitant object and the language follows as wit begat can. I do not dished to the heavy begats whe test the lanescenty language, amountaining greenboarts, heaped liberes, cooking prices, food, greenboarts and the lands of the lands of the lands of the lands of the lands of the lands of the size of the lands of examining and cleaning and studing and receif in the rolliers of peeds, as a local does prepare examining and cleaning and studing and receif in the rolliers of peeds, as a local does prepare duty, or at local wherever such a required. This work, not uncommon in mitter, operations, as lad for all saddles, but very much worse for pade with which salert his are used, as the land at the scalerth presses on the centre of the rollers, flattens them repolly, and then bruses and galls the enumals back

Sometimes the light biggage even falls behind the army, and is left in difficult country, not coming up for two or three days. On such occasions superintendence is had, and careless drivers are much left to themselves

The men, too, are often tired and hungry, and their energies in the care of packs flag. Under these care imstances pads, across whose roller salectabs he, are certain to get out of order and many bruifat ete alranda

In conclusion, therefore, I would urgently represent that the military service of Govern-

ment (sate for prively commissation purposes) requires a stronger, more durable and better made saidle than Conclusion and recommendation the Punjab pul, or any saddle of a similar nature and that as many military leads as can be so carned should be carried slung on well placed hooks as in the mountain batteries, which mode ensures the louds being firm and steady under all eircumstances

For foreging purposes, salectabs or quingurs can be used with any saddles, as also for any of the few military loads which cannot be pucked in loading straps

At all central depots Government should keep up a supply of pack enddles and gear for makes I is removes both as regards east and efficiency warking an gear and packs at the in the do-contractes when energyptar parses. Government consolt remaintain the men and attanks of a large transport corps in time of peace. But it should remain all one the country at central depots large transport corps in time or peace. Dut it should membra and over the country of central depoit rings sixes of good storage gar and proper gash saidlise both of the durchle, sycquents chard required for pone meltary vork, rut of the sleighter pad user, which will do well enough for pure commerced and, along the lines of communications wide my letter No. 920 M, lated 17th Werde 1879, preceding. The ently demand for additise and gere would thus be paperly met. I should keep 13 (00) sets only, sets a normation for a legent No. 92 M, which is the proper to the storage of the make up shouldy genr saidles with had cheap leviller, rotten thread and earthy from With good gear, mana up secony gen sources are out map a new, recovered and carrier and a triangular gen, ready and skeleton troops, unth propelly trained spars two Go comment would et the sound of are have only to buy mules and culest men. The mules generally come ready trained to loads and if the men me muleteers, they are already ball-truned, and quackly learn discipline when mecoporated into a system

NB-Mules should be fed and watered by bugle call It trans the men Roll calls should be daily held as in regiments. Government should also keep up good bullock pads to a certain extent,

say 2,000

Good pads can be seen among the Afindas and Khatirias, and in the Punjab generally Seem ingly in war Government fails to have or buy proper gra with bullocks and hones I would have a supply of pads ready, as paid bullocks week well in zero of an army. The paths used at neve a supply or man reary, as put outness work with merror on unny. The parts used at Delinhabd, on the Khyber hue, and now in Kohat for Government bullocks are usedes and are disgrace fully made. It is shameful to see the prod so the Government bullocks shapeless, slight, and bully made alongsale those of the Khattal and Afri h traders

Cased and declare—I do not think Government need keep up any genr or pret supplies for these animals. The country system not I not!, and Government has only to foster it, and in war direct the labors of contractors, and, throwing reade officialdem, help them in the numerous pinches

which come on in war time

Colonel W A G b Commandant Efith Madras Noine Infantry

I am not sufficiently sequanted with any trunsport scheme to ven-ture to give sue. To be of my seem in , trouble require to be at considerable strength in peace, and that would be very expensive. The land of carriage required, would be that best adapted for the country in which the war was to be corried out. The same may be said of the animals, and it would be no use having carls and harness, even of an improved sort, that the animals were not accustomed to

Colonel 4 Edwardes Command ing 2nd Bombay Duty c Infantry

Although it would be impossible to keep up clarge transport estab-his ment during peace time, still it must be lorne in mind that the golder, though highly trained, is not a perfect fighting in clinic unless be can be moved rapidly and at a moment's notice into the position where his services are most required. Want of mobility is a loss of power. I am of opinion there-

fore, that it is necessary to maintain a considerable amount of transport ready for immediate usu and capable of expansion to most the requirements of a war.

If ith this view sufficient transport train should be kept up along the frontier, so as to move three

divisions of 5,000 men each cross the border

At contain stations further south, the train should be maintained at such a strongth as to be able.

to move a brigade out of each division, complete in every respect into the fuld

(a) A field officer, with a stoff officer or assistant, to be in charge of the commissanat and image or duties of the division

A field officer or a captain in charge of the commissariat and impropert of a brigade. A captain in command and subaltern to assist in each troop of the train

The working unit to be the troop, divided into four or more sections, each section under a Native officer, with a proper proportion of non-commissioned officers

the trop maph compact of or or more sections of males, or of criticals, circle or cooles, or all the sections might be of one description of curringe. It would be preferrible to have them mixed, so that the officers might become acquainted with the capit littles and working of each

so that the concers might occome acquainten with the cayor towes and working in even.

(d) The subordinates the did be clarify. Native officers and non commissioned officers who have extract in the cavity of the regular trust and lave passed on to the reserve.

(e) The mon should all be Natives, and mostly those who have sorted some time in the catalog.

and infinitry of the regular army
(d) The pay to be slightly on a lower scale to that of the regular army in time of peace, with

certain field allowances on the outbreak of war

Pensions to be similar to those of the regular army for those men who have served in the carrier or infinity but on a lower scale for others

(c) Clothing to be of a serviceable color and material, warm and light—the former consisting of tune, breeches, leggings, and shoes supplied by the State every third you and the great coat every many ears, all the light and under clothing to be lept up by the man, all the details of which would be settled in a better manner by the officers of the cons

(f) The men to be named with the Native pritters swort and the Arine officers and non-com missioned officers with swords and revolvers. Buch man should carry either a hatchet for chonners

mosd or a siel le for cutting gress

(q) Mules or emuls for the lighting line
Camels, earls or cooler for the line of supply

Lies hands for heavy orderance and stege to un (4) The mule is the heat description of ir asport, and should, if possible, he exclusively employed in the fighting line. He is a quiet moves, can traverse hally and difficult country, and pagadons nurow traces on hillsales The pred bulled is also a good description of carriage. He is not, however, so easily controlled,

as he has to be driven u ste d of being led

The camel is an excellent me as (I trusport for supply purpose along pluns or sandy tracks. Ue is not good across hilly country, and suffers too much from a mations of temperature to be emplored. over great he ghts the elephant is the most suitable for the curringe of hervy ordinance and siege trains. He is not

so strong in constitution is he looks and requires to be well protected from the cold and wet The coolie or porter of the country is most useful as a means of transporting light weights over helly country. It would be most his adone honever, to campley him with the lighting line, as he

might bolt or d sent at the most or treal periods Along lines of a tpl by he would be not only most useful, but it would be politic to employ as many

as can be obtained lo il

(i) The Villera prittern cut for nules and along fairly good reads, and the Bombay hickory pattern for inflicts and dog find male. Letther listers but with rope it ces for mule hiteriess (3) The Ottop widdle is the best for large nules but the common ped with subsetalor, if properly mode and excellent dusted, in good hold for large and small make. A large stock of cut's, saddles, and packs should always be kept up at the head-quarters of each dayson of the transport train

Colonel J I W Hes Commissory General Beugal

Abelish at once every so colled movemble column in the country, and concentrate whatever currage is kept up on the frontier beyond the line of rail, so that it in my be ready on emergency to meet troops sent up by rul and take them to required bases. Nothing crused so much embar

resment in the late was as scuding on troops by rail to Jhelum or Moolian or Sukkur, the first especially, without any curriage ready to take troops on As a matter of assorting of Bakkurt, the Instructedly, a should my currage ready to take troops on. As I matter of the child of the proper that our temperature, as attempted by mattery unbarries, who ordered a strading cump for troops uniting by rul. Owns, to the good immagement of the commissions of the ready of the commissions of the commissions of the commissions of the commissions of the commissions of the commissions of the commission of the commissi

lendt yn, will comm. Where there is no deemnd, they will not be had.

I um not proported to prospec my schum for it transport service ley and tins, that, let whatever is
hept up, le with it for prel up on rinkings. I would not intend any transport service simultineously
over librar and, with ill deferrence I sulcent the subject should be considered by separate committee,
compassed of thoroughly proched men, with a 'nowridge of India generally—at earths in vinous
statutes. To though any thinge on the Dansporn model can note a raise. There is no parantess
money the operational closes of Lader who are the concess of canings. There is no real sympthy
for the British Government Natives would in time of prote mark for promosate but would wood
carrying them out by every sect of inches; and decent and I would make that no release or furth to
corrugal term out by every sect of inches; and decent and I would make that no release or furth to placed on them as fir as regards obtaining currage for work and of India

Colonel R A Moore Asing Commissory General Madras

The Mudans bullock establishment consists of one draw to every two drought bullours and one directly, two chondries, and four dufindars to every one hundred bullock. Their pay is—

	Rs A P	}	Rs A P
Driver	5 12 0	Chowdry	12 0 0
	7 0 0	Durogan	17 0 0

The drivers are on a permanent establishment, and are not dreshuged when their bullects die, but tre retained until other bullects are promised. They are entitled to a pession of Re 2 14 after thirty recommend the control of the control

twenty-five camels Their pay is-Rs A P 14 2 5 Ps A P 8 0 0 Dubash Surnan

The survans are not on a parament establishment. They are discharged the moment than exmels due and it one come dies; their pay is reduced one held. This makes their Inchlood so precaucing, that there is not much held over them. They should be plead on the same footing as bulleck.

draws and he retained when their eamels die until fresh camels are purchased. They should also receive some clotting, as recommended for bulloct drivers

The elephant establishment consists of one malicut and one cawady cooks to each elephant, and

a fourdar to ten or twelve elephants Their pay is-

A foundary in change of fifteen elephants receives Re 20. The elettendants, like the camelmen.

are declarged themselve the deplant they are in charge of his section of the declared the deplant they are in charge of his message. One mulcier is allowed to two miles and a muccadum to treatly the mulci Ther 1 y is—

The muleteers are discharged when their mules die. They should be retained until other mules are procured and they should we're a distinctive diess, as recommended for bullock drivers

An elephant in earrying power is epid to two camels or four nules or a cirt drawn by two draught billocks. The comparative cost, including attendants pay, gear, and incidental expenses, is as follows -

It will be seen that the elept ant is the most expensive to leep, and it is also the least ascful in The last elephant's purchased in Burma cost Rs 1 185 each not including Rs 23 600 cantenment TI e lest elephents purchased in Burner cost Rs 1 185 each not meinting its 25 600 for freight. It appears unnecessary to keep up these expensive et animals, except in Burna and Canna nore At all other stations they might with advantage be replaced by other earnage

L'ensensat Colonel M W W I longity tetrog Commissary Gen eral Bombay

The recent campaign in Afghra stan in which over 40 000 men with 8,000 horses (not including if a Native contingents) were engaged with a cover meses that any time called inon to place an army of 50 000 men in the field with statered and supplies sufficient for the

novements of sock an entry stage on a very extended no of opera movements of sock an entry stage on a very extended no of opera tons, and much of the difficulty expensesed in the way of transport forms and great year of the same, by I think be set down a to the suppreprintness of the entry in apprel to a registr transport spates. I will sessue then that it is necessary that there should be a framework of a transport spates for the nable of link; sufficient to meet the requirements of an army of 50 000 men

Keeping the above figures in view, I turn to the estal lishments already kept up, or authorized to be kept up in Bengri, and I find that for moveable columns at certain stations from Dargeeling and Julpigorie in the south-cast to Rawal Pinds Peshawar, and Mooltan in the north there are-

assumed to be eq at to the trumport of the following number of troops equipped on the moveable column scale, with seven days rations for Drinis soldiers, and two days for Native soldiers and horses, with a small quantity of annumition.

Regiments British on alry 2 (No carrigo for biggage or for 91 Batteries royal artillery grum for houses allowed, as regi-Reg ments British infinitry ments sho ld provide themselves 9

Regiments Native cavalry Reg ments Native infantry 9

But besides the move able column currenge til ere is also kept up or authorized to be kept up, in the Bengal presidency, at statious where moveable columns are not told off, the following carriage for army transport -

Elephants 184 | Camels 2 621 Mules 856

equal to the transport at the moveable column scale of europ equipage buggage and ammunition for-B tish carrilry squadrous

5 | British infantry regiments 4 | Native cavalry regiments Butternes of royal urtill ry Nat ve infantry regiments

or a total for Bengal presidency of-

British evaler 2, 13! Br tash infantry 13 Native cavalry Batteries of royal artillery 13 Native infantily 20

In the Bombry pres dency the moveable col sum carnage distributed over twelve stations is equal to the transport of-

British eavilry squadrons Bretish infantry Batteries of royal artillery 2 Native emain 0 Native infantis and in Midris I learn that-

El phrats Mules 113 500 Camels 715 Pick ballocks 678 Pensions to be similar to those of the regular army for those men who have seried in the carely

or infinitry, but on a lower scale for others

(4) Clothing to be of a serviceable color and material, warm and light—the former consisting of tume, breeches, leggings, and shoes supplied by the State every third year and the govat coat ever six years, all the light and under clothing to be lept up by the men, all the details of which would be settled in a better manner by the officers of the corps

(f) The men to be armed with the Native prittern sword and the Native officers and non commissioned officers with swords and revolvers. Each man should carry either a hatchet for chopping.

nood or a suchle for cutting gr as

(g) Mules or camels for the fighting line Camels, curts, or coolies for the line of supply Elephania for heavy ordnance and stege to un

(h) The made is the best description of trumport, and should, if possible, he exclusively employed in the fighting line. He is a quiet more, our transachilly and difficult county, and presiding arrrow traces on hill-sides

The prok bulled is also a good description of extrage. He is not, however, so easily controlled, as he has to be driven instead of being led

The camel is in excellent means of transport for supply purposes along plants or sands triels. He is not good irrow bully country, and suffers too much from variations of temperature to be employed over great, begints

The elephant is the most suitable for the carriage of heavy ordinace and siege frams. He is not so strong in constitution as he looks, and requires to be well protected from the cold and wet

The cooks or porter of the country is most useful as a means of transporting light weights over hilly country It would be most hazudous bowever, to employ him with the tighting line, as he might bolt or desert at the most critical periods Along lines of supply he would be not only most useful, but it would be politic to employ as many

as can be obtained locally

(i) The Viltes, pattern cart for males and along fauly good roads, and the Bombay backery pattern for bulloods and long lad roads. Leather breastband with rope traces for mule harness. (j) The Otago addle is the best for large mules that the common pad with sulcetake if properly made and carefully adjusted as good both for large and small mules. A large stock of carts, saddles, and packs should always be kept up at the head quarters of each division of the transport train

Colonel 7 I Willer Commissary General Bengul

Abolish at once every so called moreable column in the country, and concentrate whatever everage, is key to up on the frontier beyond the line of rul, so that it may be read on energency to much troops sent up by rul and tale them to required bases. Nothing caused so much embarrassment in the late war as sending on troops by rul to Thelium or

Moditin er Sul kir, the first despenity without any extrange ready to the trops on X is matter of fact, it did not happen that my trops were defined, as anterpacted by indiviry authorities, who considered a staining camp for toops wriving by nil. Owing to the good management of the commission of other stabled me expression of the section of the state and darked in the real state of the state and darked is a term of the state of darked in the state of the state and darked is a term of management of the supply of number there will the exercise in the proposed for the state and darked is a term of management of the state of the darked is a term of management of the state of the state and darked is a term of management of the state of the state of the darked is a state of the state of the state of the darked is a state of the sta soon the crimel will be as sease in India as the Jahars lane (come, and in another 10 or 15 years hardly any will remain. Where there is no demand, they will not be hied.

I am not prepared to propose any scheme for a transport service beyond this, that, let whatever is In not propriete to propose my samen on a transport service sequent care, unab, see written as kept up, he static for print go a ratio as I a sold not sittening any travoute service summitteneously over Indra, and with ill detremen, I within the subject should be considered by a square to enmantice, compared of knowledglie pretends mee, with a lawowing, of Indra generally—the cubic law a various districts. To attempt up thing on the Daropert model cut mover useful There are building to districts. To attempt up thing on the Daropert model cut mover useful There are no particularly districts. The attempt up the property model are not as a printing the property of the control for the British Government Natives would in time of peace and of fur promises, but would use carrying them out by every sort of triclery and decert, and I would use that no rehance or faith be placed on them as far as regards obtaining carrage for work out of India

Colonel P A Moore Acting Commissory General Madras

The Madras I ullock establishment consists of one driver to every two drught bullocks and one drugth, two chowdries, and four duffadars to every one hundred bullocks. Their pay is-

	Rs A	P	1	its A P
Driver Duffadar	5 IS		Chowdry Dwogali	12 0 0 17 0 0

The drivers are on a permanent establishment, and are not discharged when their bulled s die, but The returned until other bullocks are presented. They are entitled to a person of R, S is 4 feet thirty years service. They accurate no clothing, and a distinctive dress to distinguish them from other campyour service. They receive no count of 5 may a documents curve to distinguish them from other camp-followers is much required. It might consest merely of a turbun of a priticular color and single and a baset a packe. They are to poor to provide themselves with proper deathing.

The camel establishment consests of one survain to every two camels, and one dalach to every

twenty-five cunels Their pay is-

Rs A P Rs A P 11 2 5 Dubash 8 0 0 Surann

The survives are not on a personnent establishment. This are discharged the moment their ermets disc, and if one comed dies their pay is a discolour field. This makes their highly one pre-carrows, that there is not much hold over them. They should be placed on the time feeling as I alloci-

drn ers and be retained when their camels die until fresh camels are purchased. They should also receive some clothing as recommended for bulleck drivers

The eleplant establishment consists of one mahout and one cawady cooke to each elephant, and

a fouzdar to ten or twelve elephants Their pay is-

A foundar in charge of fifteen elephants recover Rs 20 These attendants, like the camelmen,

are discharged whenever the deep hant they are 1 thruge of d es

Alleis have only briefy been introduced into its picsadency

One multiter is allowed to two

mules, and a mucedium to tend by the mules. Then 1 yr is—

The muleteers are discharge I when their mules die. They should be returned until other mules are procured and they should wear a distinctive diess, as recommended for I ullock-drivers

An elephant in callying power is equal to two camels or four mules, or a ca t drawn by two drught b llocks. The comparative cost, including attendants' pay, gear, and incidental expenses, is as follows -

It will be seen that the elephant is the most expensive to keep, and it is also the least useful in Ti e last elephants purchase l'un Burma cost Rs | 1 13a cael not meluding Rs 28 600 cantonment Tile last elephants purchase l'un Borma cost its i 100 chei not incouning as 20 000 for freight. It appears i mecessiry to Leep up these expessive at animals except in Burma and Cannanore At all other stations they might with advantage be repliced by other carriage

L enterent-Colonel W Will lo gl by Act og Commissary Gen emi Bomboy

Tile recent campugn in Afghanistan in which over 40 000 men with 5,000 horses (not including the Native contangents) were engreed proves that India may be at my time called upon to place an army of 50,000 men in the field with safe set and supplies sufficient for the movements of such an error vetting on a very extended line of opera movements of such an error vetting on a very extended line of opera during recent operations and gross and much of the difficulty expensioned in the way of trinsport during recent operations and gross part of the lossess myr I than he ask down to the unpreparedness

of the army in regard to a regular transport system. I will assume, then that it is necessary that there should be a framework of a transport system for the whole of India safficient to meet the requirements of an army of 50 000 men

Resping the above figures in view, I turn to the establishments already kept up, or authorized to be kept up, in Bengal and I find that for moveable columns at certain stations from Darjeeling and Julpigorie in the south east to Rawal Pinth, Pesbawar, and Mooltan in the north there are

assumed to be equal to the transport of the following number of troops equipped on the moveable column case, with some days' rations for Birkvi soldiers, and two days for Native soldiers and borses, with a small quantity of unmunition—

Reg ments British can lry 2 (No currage for luggage or for Butteries, royal artillery Regiments, British infantry Regiments Native cavalry ۵l grun for houses allowed, as reguments should provide themselves D

Re, ments, Native infantry But besides the moved le column carringe there is also kept up, or authorized to be kept up in the Rengal presidency, at stations where moveable columns are not told off, the following carring for

army transport -Diephrats 184 [Camels 2 621 Mules 8,6

equal to the transport at the moveable column scale of camp equipage baggage, and ammunition for-5 | Butish inlantry regiments British existry sq ad ons

Native cavalry regiments Batteries of royal utillery 4 Native infantry regiments

or a total for Bengal presidency of-

British ewalty British infinity 2. British infinit 13 Butteries of royal artitlery

Native infantry 20 In the Bombay presidency the moreable column carriage distributed over twelve stations is equal to the transport of-

British carriery squadrous Br tish miantry Batteries of royal artillery 2 Native en alry 0 Native infantry and in Midras I learn that-

I lephants 113 Mules 500 Cymels Pacl bulloeks 673

(i) If lighter and stronger carts can be made they might answer, but I have seen no out that has stood the wear and tear well in this campugn

(i) The following remarks on pack saddles were made by a committee at Quetta, of which Major

(9) The tottowing remarks on puts, sometime were seened and the whole, been a success, but the does are precised from the rest of common that the puck-radials has, on the whole, been a success, but they think the oldowing points should be considered before reloying a pattern for tuture one—

(a) "The leather width or pal is not quite long enough or does noting. It is suggested that it is made about four unders longer not two makes deeper in the lang somewhat his othe pattern and has always that the continuing.

forwarded with these proceedings, and be always fitted to each mule

(b) "The breeching and breastpiece appear to be made of too heavy stuff. They should also be

fitted to each mule

(c) "The nucles pa bling or 'nauli,' which forms an important portion of the Punjub guar, appears to have been contited altogether from the gear supplied for transport purposes with the Kandahar Field Force "The Committee consider that the galling of the nucles withers by the 'roller' or 'sounds' was mainly due to this omission

(2) "The 'roller' or 'sounds applied with the gerr was not shift energin, and was not litted with 'keopers'. Thus the ends of 'the 'sounds' could open out and gall the laye of the annuals (d). The 'order' or 'sounds' in 'the yeases' these such so so so thick to the pony as to the nucle, more cases are the former annual, and as therefore more hable. to cause wither galls with ponies.

(f) "The Committee think it would be in improvement to attack the roller to the leather saddle each animal should be separately fitted. This would ensure the roller being always put on in the same.

position would prevent its shifting, and would probably allevate inp galls

(g) 'If the roller is not thus attached to the leather saddle, it should never be tied together with

"A the blust's show was assumed to be actived essains, is assume here or see a segment was seen, but dead the filed with proper's despers' of blanketing or tage seem on the tages extract "It appears that the pattern of 'denble sings lag,' which was designed by the Sunk Com-mittee for the currency of small sum assumements because has been followed in amplying bugs for excrying communication stores. This lag is not large among for the purpose. The Committee are of protons that examinated stores about the earlier and in the ordinary chest, or spent about long, quitout that examinated stores about the earlier and in the ordinary chest, or spent about long.

forwarded with these proceedings Or in the case of boxes, in curvas 'mule or bullock sing'
3rd —' If a Committee were appointed to set in the Punjab this cold weather they would seen correct anything that was swrang print present patterns. They should be immaded only some size of gear which had been strictly used on this column, and with capes of all reports on the subject. They should be privated only some size of gear which had been strictly used on this column, and with capes of all reports on the subject. They should province doplance size to patterns of each proton of the gear Cap of these seets should be forwarded to the Ordinance Department, and the other to the Commissional Department.

Colonel M. J. Braziller. Official ing Deputy Commissiony General Calcutta

This is no east question to answer, the less so as the question, so far as I know, has never before been propounded and there are absolutely no previous experience or data of any kind to go upon, so that any estimate of the personnel and material required to form a frame work of a transport establishment to enable an army to tale the field in time of war must be crude and theoretical. The idea implied I take

nt, is a skeleton establishment to be maintained in peace, which, when war threatens, can be quickly completed by its other and minos component parts. The first essential to having a body of officers compensed by no other and musos configuous parts. The risk essential to indicate a body of indicate competent is regulated and manage a transport depretation in time of war is to train them to discretified beforehand in time of peace. To this end I would propose the complaint of a carefully-considered set of tules containing detailed majertacions includited to meet every conservable containing the containing the containing of the containing the contain

considered set of rues consuming unsures and account of the constraint of the constr a separate examination for those who wish to qualify in the accounts branch as there should be a class

of efficers in the department competent not only to ret as paymasters of transport in the field, but also to take up the adjustment of the accounts at the end of the company This last is a very important consideration, for, though many officers will be found really to perform the out door duties of managing the transport comparatively few will be willing or competent to undertake the more responsible one of making such clear, regular, and methodical payments

possess to construct the source responsesses on a maning sense early regions, was measured. Pyriment is such a nature as skall when of a testy saked intervent of the department should have the mak of 'myr general', and be a trany beed quarters. There should be an officer of the rank in "field distance" at each drawness head-quarters. There should be an officer of the rank in "field officer" at each drawness head-quarters, with a soluted officer from every limited and Nature regiment much make the late to the test regimental duties.

(b) Selected non commissioned officers from British and Native regiments
 (c) Steady privates from each regiment, British and Native

(d) According to the rules of their branch of the service (e) Of their rink, with some distinguishing helmet and cap ornaments to show they belonged to the transport department, with two pairs strong boots, with gutters, and stout dark brown riding

breeches, two pairs

(f) The non commissioned officers and men should be mounted on good pomes provided with emalry swords, with wooden scabbards covered with brown leather and upped with steel, and re rolters

(9) It is implied I presume that no transport is to be kept up in time of peace, except the (f) It is imported a presence time no transport is to be sope up in case of percey excellence ordinary moreable column errange, and that in the preparation for are early present and visible agency, such as time and early choosing and the early arm of the administration will be made are of as as present to develop the resources of each detriet. The description of carriege to be employed. will of course depend on the mature of the country forming the scene of operations

(A) As a rule, canels will go almost everywhere, but recent expenence his shown that they are hable to great mortality when employed in clamates colder or warmer than their own, and that if a hable to great-morfally when employed in Junetice collect or wanter than their own, and that it a protracted company is underdation, great can school be claim of these numbers. Employed we much more bruity, and stoud reasstaticts of classife fairly well, if enough fooder as procurable, and time and morfal of all buggings namels. Parse in India was generally too skinder and weak to be much employed, and have not the strength, tooghests, or busidess of the mule. Pack latter we good, if throughly well transed to early lovids histories and the country, which are generally found adapted to the roots to be traversed. They all go one ground which would book to process well but carries. As

the same time a reserve of Maltere carts, the component parts of which are interchangeable, should be kept up Har sen -Good Campore made harness is very serviceable, and lasts, if well cared for

a long time

a none union (i) The saddle or pad in use by the troders of the Propeb, and which no doubt they have found from the expenses of generations to be well stated to the purpose, is, I believe, the best saddle. It consists simply of a long staffied flar lying on each said of the spine, with staffed flip to on the flanks The former protects the ridge of the back, the latter the rits of the animal More elaborate saddles, such as the Otogo, with non and wooden frames, have been tried and discarded

Colonel J. Keer, Deputy Commas sary General Lower Carolo, Bengal,

As at present, I would have none but trained commusare to officers, commissioned, warrant, and non-commissioned, who would be well able to do the work. The present fault is that there are not enough to meet

the wants of a company All should be under the principal commissariat officer of the division

An about to these products or products or the product of the produ unity have designed a too tumpiers was used: respective suscens or regularities and a review name of a fatter agent of very Native regiment. For and person, oldsting, equipment, and owns, as a present, (d) as at present, (d) anumals, deplants, or emiss for even even openings, and cannels, even, unknown or pousse or peak bulloads for mere is into, Bo, (f) the centry backery accept for bright ambulances, which should be spring earls, harness ordinary yole, Bo , (f) common test (hump sacking) well staffed with straw.

Colonel G S Muchean Deputy Community General late in Com m sar at charge of the Klayber and Kuram Perces

I am not prepared to answer this question in full. It means an entirely new organization of a new department and a very large one With reference to (g), I may say that seventeen years ago I submitted to the Commission, then sitting on the Commission. proposal for the introduction of pony wagons for the main carriage of

the army, and I have subsequently some few years any unique the propose for the name entrance of I regers. I have no copy of which I proposed, and carmot give dates more closely. But I am still for opening that a large A shared an armot, cheen by I and a carmot give dates more closely. But I am still of opening that a large A shared an armot, cheen by I not all but all posses () and of possible to be state cheapest carriage for the sumy. I could be transpected by rul (defining an exact and card early receil carry the same look, would do all the work or a striken, and would carry indicately if necessary (d) 2nd and — Jacks beds, posses wound, bulled that, onlose forwith, and the only carriage.

which should go mio hills

(4) Zee outer of curt—The American or Canadam farmer's vergor. There is, thick more of than a pole, a fore such un good terming ger, two negacity needs, which into at feet Again, truly pale fastened to the four wages by an map me, first visuels, axis, and two negacity costs,—a science, last vail a pair or two of base and rope, cayable of carrying anything, made mostly of lankery. They should be got from Carvia.
(5) The best pool, modifier or estimary loads as the Nature one of two pads, as was made for the Calvil campang. (t) The nature of curt -The American or Canadian farmer's wagon There is little more of

Colonel R. Q Ma avening Depoty Assistant Communicary Gen onel Lampton

It appears to me that if the present transport establishment be maintained, it can be expanded to any extent from the resources of the country, because each man who has been used to act with Europeans will if the permanent establishment is distributed as far as may be required among the bired attendants act as a guide to those who have been brought in from the country and prevent confusion and describen from alarm

(a) A European subaltern, used to Natives, to every three hundred animals, and a superior officer to or the abundance of the ranks, we at present

(e) Rood intelligent Natives of the ranks, we at present

(e) Natives, us the entitle of the country of any kind get wild at the sight of Duropeans

(c) Audits, we the detailed as we country on any name goes were a new regions an amongone (c) and (c) at presents, with surm defining on entrot, according to climate (f) at Netter tainers.
(f) A Netter tainers.
(g) Deposits in this country to be crossed. If wheeled, only two wheels, the Valiets cards being the test, it get the numb. So these morphis hergels supplemented by bullects currying crims as some one of the country of the count in Southern and Central India. Slaughter bullooks may in a fortnight be taught to carry, and they and their loads can be eaten as required

L'enferrat Colonel J. V. Hunt Dopots i sestant Commessary Graceal Bengal

I connot suggest details of transport framework without knowing whether the frameport is to be under the commessariat or to be a supar ite and distinct service, and also whether the transport is to be calculated for internal nurface only, or whether it is to be the nucleus of a trans port train for service out of India as well as for internal warfare

In the first instance little is required, but in the last extensive arrangements seem necessary

Lockbardt Deputy Community General

(a) It appears to me very desurble that a nucleus of permanently and 16 appears to me very user time cane a nucreus or permining appended transport officers should be kept up, say four, namely, two for Bengal one for Bombay, and one for Madris. To these officers should be entrusted the task of truming officers and men of our European and Native army In this manuel a reserve of officers and subordinates would be formed, from which a qualified establishment for transport service in time of war could be

dinfted

(b) See my reply to item (a) (c) I would suggest the Luropeans to be chiefly employed as clerks to assist transport officers in the interest of pryments and the keeping of cornect accounts and returns. The Natives should qualify themselves for the appointments which are filled by Native subordinates, such as chould, &c.

(d) Since these men would only be temporarily employed, an allowance fixed for their services when required appears to me to be all that is required.

(e) I think regimental clothing would answer all purposes, with some mail by which they could be distinguished

(f') As the 11she would prove very often an impediment in the performance of their duties, I would recommend that all subordinates should be aimed with swords and revolvers

(g) The discription of transport must depend upon many considerations, such as, for instance, the nature of the country, and its resources, the strength of the force, &c

(f) See reply to question (g)

(g) The common bullook glurry of the country enewers in my opinion all purposes. I would recommend Mattess carts in addition, but the mule bred at present in this country is not large enough. for draught purposes

for trigger proposes.

(f) In peak-wildles I consider leather work, should be avoided on recount of the difficulty of reparing it and the greater intuitive of heretage. A suddle should be much to fit the numerical is anintended for and should have no stringe in the past covering the numerical sack. Sides should be well
pudded, and the part along the back consist of only a strop of grouny lined with thick numbels, so that the pad of the sides will press against the animal, leaving the back untouched

Capta a T F Holday Deputy Assistant Karlalar

To leep up a separate transport department would entail a very large annual expenditure, and it would be much more economical to extend the present system of moveable column carriage. The cost of maintenance of the present moveable column carrage with the number

of animals could be ascertained from the commissary-general's office, and if it were determined to keep up twice or three times as much, the extra expense could in that way be pretty nearly ascertained. There is no doubt that pony carts and pack-horses might be made of great use as carrage for a column in almost any country but the cost of keeping up such carriage,

when ersualties and diseases are taken into consideration, would be enormous The most economical would be an expression of the present system, and this could easily be effected without a very great extra ontlay in personnel. The currings would be under the commissariat, and

extra expenditure on account of a new department worded If a new department is to be formed, it should be distinct from and not under the commissariat, since orders coming from the quarker master general direct would clash with those from commissary-general and this not being advisable, the whole management would be better removed from the com-

general and this not being adversible, the whole management would be better remarked from the com-mission the dynamics. He however, the present a given a mandament, and a sufficient number of war, and and one commissioned efficiers phered at the disposal of the commission department in time of var, famingers, would not all publishing to make more economically worked under that department. In the case the field, with temps moving clay) and my brinds full of work, it is impossible for mot draw up a new scheme. Even supposing I could do not the is beingered with work, any scheme would be much upon to objection, and I do not thank the Government will gain by altering the present system, which is expelled of expension to an economic actival. If expense is not et at the scale agminst i, it would be quite possible to denihe or trible the amount of more whole column extrange now kept up The formation of a new department would, I think be a mistake It would have nothing to do in time of perce, and it would have such a small number of permanent men in it, that to expand it sufficiently in time of war would be virtually building up a new department for the occasion

G H. B Hallen Esq General Superintendent of Herse-Breeding Operat ous

A transport establishment on a limited scale should be always kept up in the very best order in all parts of India, so as to form a nuclous for development on the required scale when found necessary, also to nor development on the required series when found necessity, also to allow the troops of all binnels to become thoroughly conversant with the details of trusport and carringe dubes. Each division of the Indian runies should have a complement of trusport and curriage in

proportion to the number of troops belonging to the division

It will be sufficient that the amount of transport should be equal to the transporting of the troops no win or summent us the amount of transport anomal or equal to use transporting of the beings meants of or brany reliefs, and this amount notled the be so much as, at first through, might be considered, as every corps or bettery does not more every year, and as the moving of troops may go on through 7 or 8 months of the year, so by judicious arrangements regarding reliefs a limited amount of trusport and carrage would suffice

mounts of cruspors and corrage would entitle

By troots moving with the trusport and corrage which they would be entitled to on field
service, and it being stredly ordered that on no account more should be allowed to recompring the regiment, officers and men would become recustomed to carrying only field service weight, and would appreciate by experience the advantages of not being encumbered with unnecessary tentage and briggage Lixira begging should not accompany the regiment or column out the metal. Privile irrageometrs should be must for the transpect of such extra bagging, which should nover be permitted within touch of the column. The comfort of living but little bagging on field service

prespective of the expeliency of only a bare sufficiency for every officer and man being allowed will be fully appreciated. One eighth of the weight of begages now allowed would be found sufficient. Again, the may be hoped that the feats can be seale now restudented all be at one telebeloid, and double by p'ls, eight feet square, will be the schowledged tent for all officers. A p'et of the above demanance would be sample for two offices, eyelven and heretenant, and one will be quite enough for a field officer. The weight of most test, suchings gregs cloud tent exceed 50 list. A right to below recommended; the transport should be of the close or closes which well be although during we it man, so would every officer and non become accustomed, on every move from the

tion to station, to the management of the truespot animals, fitting and loading of pack saddles, &c tion to serious, or are management to the principle variation, integral was accounted to Proceedings, At present hardly an officer or principle hours any time regarding the time management, pack adding, and the loading and unleading of triasport annuals. Under a speam below advented, every officer and man would, as a part of military countries, become prairieally acquainted with three most important matters

An army transport corps on the scale above indicated should be established and kept up so as to form the nucleus for development whenever required-

(a) One director at army bead-quarters

One assistant director with each divisional head quarters

One sub assistant director at every station where more than two regiments are quartered

One warrant officer or a Native officer at every station where less than two regiments are quartered

One reterminy surgeon in charge of transport animals of each division of the army

(b) The director to be under the orders of His Excellency the Commander-in Chief in India and

to have control over the depurtment

The assistant directors to be attached to several army divisional head quarters, to be under the orders of the general commanding the division, but departmentally under the director, with whom they should correspond direct submitting copies of correspondence whenever necessary for the information of the general commanding the division

The sub assistant directors should be under the orders of the assistant directors, through whom they should submit all departmental inturns, &e, for the information of the director

Warrrant or Natur officers to act in a similar manner

pack saddles without non and with as little needwork as possible

where

The vetermary surgeons should periodically inspect the several lots of transport animals within the division to which they are attached, duly advise as to the management care, feeding of the animals, with reference to suntrry measures, and exercise reteriority care over the sick and lame unimals. Veteriority returns should be submitted by them to the inspecting returnity surgeon of the circle in which they may be doing duty

(e) In addition to the officers above noted, the following establishment should be kept up, and it may be here noted that the remarks are applicable chiefly to mule transport and currage

1 jemadar syec to every 100 25 syces mules

(g) Pack saddles and some carts on the Maliese principle, but modified to suit local currumatances

(ii) Mules, by for the best of all truspert monds, bung the most hardy and enduring under continued privitions

(i) Maltese carts Maltase carts Plain, stout brown harness, with strong buckles and truce chains, &c The Otago is the best, but the irons or is hable to be broken. The ordinary Punjub

How would this fiamework be filled in time of war, and in what manner would the transport for troops moving to repress local disturbance be provided for?

Lientennut-General C P Cham beela car Ordh Division car late Commond og

Officers and men might, and should be, instructed in the duties of a finisport corps in peace time, so as to be able to employ them whenever required

In fact there should be so many men per battahen, and certain officers, regularly put through this data like gun drill, or signalling, and then a reserve would be ready for war tame

It might be fersible to have men extra to the reserves for the colors

registered and under engagement to serve in nai time In time of local disturbance corrange would be pressed as in all countries. There would be no time to spare for sending for it elec-

I waterant Gener I !! T Hughes on County ding Saland Day son

See my answer to question No. 7 To more troops to which no transport is attached, it would be necessmy to make requisitions on the districts

L'entenant-General J Forber Community MI on D vision

It would be filled in according to the number and description of treeps despatched from my particular station. In the event of local disturbance, transport would be provided for by large carriage in the district

See answer to question 7 If it were decided to keep up a nucleus of

Major Geal 1 W Mac at re C.D., Coming Hydershad Saby Force Major General R. O Pright, c.a. Cou mand up Vecrot D is on

transport at all stations, it would be available for any sudden emergency Reply No 7 meets this question

Fide unswer 7

Major Cent I W Schneider CB County A Bres Bemlay trmy

Br gud er General G. Burrous Ouarter-Master General Bombor

Transport, if required in excess of the present field column establish ments, would be obt med locally through the end department

At stataons within foreign territory, such as Decay, the durbar would assist in collecting enringe

Brigad or Go eral P G Lemp ster Commanding Coded Districts

A certain proportion of all cavalry horses to be trained for draught and men to ride and drive, which would form a nucleus for a multiry tram Such men and horses to be drafted from regiments not named for service, each regiment sending a subultern and due proportion of

non-commissioned officers to the train on its coming on a win footing Camel carriage as now kept up for moverble columns to be augmented by hired numbers, and to be fed by Government

Mules and pomes to be augmented by purchase

Bullocks - The headman of brugarie bullocks to be prid full hire for the unimals he has contracted to supply, less cost of food supplied by Government

To repress local disturbances present moverable column carriage sufficient, to be sugmented by sub-1 terms of regiments to which eathle of movemble column is attacked, to be subordimete to perminent transport officers. Subordimete establishment to be sugmented from Netwo regiments, but to be subordimete to perminent. Burgeon

A war establishment would be-

	meis			1,000	subalterns		12	
	nles			4.000	men		120	
	illocks			1,000	fauters		15	
fie	ld officer			1	vetermary surgeon	٠.	1	
which we	uld be represen	ted by a per	108 6	stablishmer	it of			
							_	

camels mules bullocks	:	farriers	250 1 006 250	field officer subalterns men		1 2 30
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Brigadier General T J Murray, q n Mooltan Brigade.

By purchase or hire Trinsport to repress disturbance would be readily procurable locally See reply to question 3

Colonel J A Tytler on, vc Commanding 4th Goorkhas

The only way that I see of filling up this framework would be by at once appointing a certain number of previously qualified young efficers from British and Native regiments, and men from British and Native ervalry regiments, to any army corps or division proceeding on survice and by the Government buying up the requisite number of camels and mules and pomes that might be required. To enable them to do this he Natives should be encouraged to beed as much as possible, both camels and mules, in peace tune, on the understanding that, if found strong and service-tile, they would be purchased from them in case of A certum number of curts of the best pattern should always be kept on hand. They cost nothing leeping

I should say that were moveable column transport always really

it would be quite sufficient for the troops moving to repuss any local distinbance

Calenci J Macdonald Secretary to Government, Bembey Military Department.

By drafting a few men for regiments, and enlisting the followers reserved with camels, males, ponies, de To the troops employed in quelling local disturbances, the existing field column, with a certain amount of lired our ige, would be sufficient

Colonel A. H. Murray Deputy Adj inat-General Royal Artiflery in Juda

The personnel would be completed from the runks of those who had learnt their duties, and a list of which should be kept, with qualifications

of all The statered by purchase or by transfer from the permanent trans port elsewhere which may be as alable this again being made up by purchase on the spot or where best obtainable

On the emergency of troops being required suddenly to repress local disturbances, I would requisition on local resources, if not in a statem where permanent transport was kept up

L entenant Colonel A. G T Hogg Departy Bombay Quarter Master Gener

In time of war, under present arrangements, trusport has to le orgunzed denote, and there is very little to guide the office s entansied with this most important work they have to learn before they can

The framework suggested would render matters comparatively cast At the base of operations where all the material for transport would be collected, you would then have some officers and men frunhar with the rooms upon not men and some owners and men vouter with the more important delands of transport, and with the and of a hund look for transport, which might be published under authority, truns of usuall to graunted on any seak required. He only difficulty would be to get sufficient faithers. In the event of a companyon of any size, few reg.

mental officers would be avulable Transport for troops moving to repress local disturbance could be provided for by bired earning

Nager A. A. A. Kinisel Deput; As atant Quart r Master General In care of small expeditions the entrage might be withdrawn from a number of regiments, and handed over to the force to be employed the regiments from whom it was withdrawn being at once furnished with new crimace

In case of a regular war, each regiment would refun its own true part as a modeus, to be made up to the full complement from the reserves relained in districts, as proposed by me in replies to questions 15 and 19

Officers would be drawn from regiments, as in the case of other stuff efficers. By the system I propose all officers would have some I now ledge of transport duties, and the most active and intelligent should be effected for staff employment when refunded

L cutenant Colonel Lord R D Kerr, Communicag 10th Hussars. With respect to the latter query, the movcable column is alway available for a portion of the troops when required

Should the eard authorities fail to procure carriage on payment from

Should the evel authorizes full to procure carrings on payment from local owners in case of distarbances, there seems one course only 11., to impress the whole of the transport suited for the service in the town and distart, dipsent to cantamounts, paying a far 11th of compensation for mannels and velocies. This would be caused out by military rods and only in times of disturbance.

I ontennt Colonel J C Lo Ques v. 12tl Royal Lancers Then own squadron and troop carts

Major J W Chaples, 8th Has I should say that moveable columns and regumental transport would meet the requirements of the letter part of this question

Colonel J A Buddell 12stl Regressit. Equipment not required for immediate or ordinary use to be kept in size by the transport department. In our time, the 1 corporus and Nations might be temporuly innecessed by columbers from the army In case of any midden consequency draining perces time, extra cathing required might be supplied under the order of the cult sufficiency

I enterant Colonel T Routand Constanting I 5th basel ors The personnel might be filled up in a great measure from regiments. One officer per regiment as transper officer would look after all regiments transper, and there are above so it elothers, the vessel the language and know the ways of Natives who would be gird of the betth. The extra material required would, as far as assumals are concent loans to be got by fine, as it present

Let terrort-Colonel D Warren Commun I g 2-14th (Propos of Wales One) Regunest.

In reply, I would record that whetever framework may be decided upon, its completeness for war should not depend upon obtaining repmental effects, who can only possess migrefet hanvilege of the els of Natives and animals who may fall under their charge, and who can be allowed from their terrested with a who had they are committed

be ill spared from their regimental work, with which they are requainted.

The trumsport necessity for though moving to repress minor level
disturbances would be provided for by the moveable column trumsport
or by the local authorities.

L cutenant-Culumel J S Haul Comma lug 49th Regen ent Trem the district, a regardry of all entitle convinges, and annuruls being kept by the sub director of the district or station. Of convervables into period of imagenche, ritaming, & e, as well as compensed tion to inter 6 hours, when called in p, sould have to be frunced but better still from Govenment entitle or mule farms established used his taket in I have brade no mention of elegations and ermois, of which the turns of a toulkin many prices heigh consists in 16 supplie must these I pressure that in some localities sakes and unsagements could be made with Katter collection and gentlemen coming totyl states.

I catemant-Colonel G. H. Purker 92. t Haghla dors Moveable columns, commissariat, or through the civil authorities

Mayor F Stephen 4th Battal on It for Dr. gode

By Lapping always a certain amount of transport in each station

Major Hugh P Pearson 12th Foot.

Since, under the scheme I propose, the superintendent of trans part would have this hard full information of the ensemit and de scription of certaige a validable throughout the country, and where it are to be found, the cup uses of the frumework to the requirements of war would be a sample metter of routine. I have without such tribulated

with would be a sample matter of vortice. It en vithout such cloud-tech knowledge it has always been possible, so fur as I am at a e, to meet my demand for carrage, for service in India. Statistics of this kind could be compiled only with the and of the evid authorities, who would naturally keep a copy in their offices.

To exwell be secondal, to the maintry authorities on the spot. The extent to which expursion and have to be curred sould never stry, depend upon the engagence of the ever. The additional recursor is required for each better, as "" from dependent of ince to would be more to the out required in all would be and the controlled to the region of the spot of

tem of expansion would be equally, app heable to external union miterial disturbance.

Muyer J D Diese Learne atti. His some partic—for instance I think in Sind—tile excels lept ly
they with the unishatistics. Are regis beyon.

Appendix IV]

(1038)

If this rule were applied generally in India, the Government would know the resources of each particular part and where to obtain currage in time of need

Capts H M L Hutch son, 1 Mth (Prince of Wales O'va) Reg ment Colouel C. R O Funs Commanding Royal Artislitry Meerub The earts being n store the heusis, in addition to those already entertained, could be supplied locally

Major H C Lores Commanding 11st Royal Artillers Having no frameworl, it is needless to say I have no scheme for

filling one in

The moveable column system should be able to provide transport
for a small body of treops moving to repress local disturbances

1st — I would force all owners of au table cuts and anumals to register themselves with passessess of such in the offices of the collective of the respective districts. They would all two 'n register number. Government should pay them a trilling fee for registering above cuts and they would understand that on energiency Government's would requisition them for then bests on outs, or both, at a fixed search with

nor men, nests on conta, or both, at a fixed series rate 2nd—Thanport service depois should be established where a extan number of earts and namels should buy is be I ept in time of peace They could be utilized for work in conforments commission of ordering and other and could be made evolvible for him to people requiring them

at a certain rate

In both the above cases a certain amount of transjort would always
be revely Animals and certs should be registered throughout the
country, and collectors and their subordinates made responsible for them

Ma or W W Murdoch Com mailing DA Royal Horse

The regumental largeage would be complete. The regumental columns sale the next complete, and the commercial should be filled up by purchase and the general trumport should be filled up by purchase and the general trumport about it formed by a system of container. Those mounts or maps, and the transport and commissainst should have sufficient currings for this service after seady.

Major T M Harely gg Com mand og E-drd Royal Artiller) By keeping up a careful register of all available carriage in the distinct calling it in and attaching it to squads aheady formed out of

morerble column
For local disturbance by seizing carriage

Major the Hendle A. Stenart, Commanding I C R H A. As described in No 7

Major C E Natrue Royal Horse Artillery

The director and assistants, and perhaps warrant officers would be permanent. Non commissioned officers would be solected from those trained. The extra transport currege would I me to be lured or pressed. The perm meet transport tept up at each station should be sufficient.

Magor P FitzG Gallacy Royal

Art Bory

for local disturbance

Lives, thing heary arrunged beforehend as shore indicated, the transport branch of the commission of deportment would collect the currage
by high age as points pers only greed on. Nearly all that voing seemel
her subjects on the foundates for whole terrage must be had uply not on or met
her subjects and could more writhout help from the transport to their
phases of modeliarts on. As to the offices a currant on the nontone smooth of the report terrage that the part in two commissions of filters, who is noted by respect to models a compared on the
dation of the department made a subject of st day no garantee schools a
semblement number of extensifiers of the Nature transport would be for aff for those dates when required. For internal distributions as sufficiently
for those dates when required. For internal distributions as sufficiently

Vajor W II Achie Royal Artik

I think the means of transport of a few largedes should always be lept up complete. In time of war the present in offices should, as for a possible, for completed from the units of those two land here produces the state of the set took does not toners. Mattered should be provided cather by procless or kins, by local distinct supermisendant on communication with the cult authorizes and under instructions from the director.

Capta n G C Booly 13 8th Royal tridlers

Tide answer 7

I entenant F C Wase B.A. Ac 4 Hazara Mountain Battery Punjab Frontier Force The captulates of each distant with reference to the supply of males and creade should be duly regardered in the own differs and thus in time of we the requirate number to complete the regiment (i.e., transport could be called in with but that duly and occasional be taken during the yearly old statistic measures to cell those men and smartle out for a notable case sumfar to the very in what I take represede comp followers should be yearly celled out During

the month they are called out they should receive pay, and the opporturner, should be taken of scener that their gear is in working order, for Government should only be called upon to supply gear for its perma nent establishment

Col Hugh Gorch Commandant 12th Bengal Cavalry

Circle superintendents would at once organize the transport for their respective ulmy corps. The framework of the department could be at once supplemented by men det iled from regiments (not in the feld) in addition to those perminently attached, these men receiving the same staff prv The carringe is registered would be at once called in, and the system should then a orl with dispatch and regularity. The above, however is only a rough idea and would have to be thoroughly organized

Chptan M G Gerard, 2nd Cen tral India Horse

gram per diem)-

The remaining officers and warrant officers by volunteers from reg ments The Native soldiers in ght be men of to years' service permitted to the their pensions then-as a small percentage might hie to-with liability to serve in the transport tram one-fourth only being required on peace establishment. They might relieve each other unually on duty on fall pay

Syces and artificers must be hired as required

No fixed rule can be applied for receive animals to raise a division from peace to war footing, as it should depend on local conditions as to how they can be most advantageo say employed in peace In some districts a system of bounties—so much per menem as a taning fees, animals to be available for purchase or hie by Government—would work well

In others Government animals might be hired out or employed for public carrying purposes

In others again purchase in the open marl et might be most advisable

The strength of a division on wir footing would be-

```
1 commandant
         ident
4 let class warrant officers
To be mounted on divisional mides or pomes
                                                 4 subalterns
        20 4th
```

50 5th class (syces temporardy promoted)
500 to 1 000 syces, according to the proportion of pack and driught mules for that particular campaign

Carts &c would be assued from stores to the divisions brought on to war footing

Transport for troops called out for local disturbances would be supplied from nearest transport train division if regimental cave age is not kept up Supposing the above division to have 700 mules, 1,300 tattoos (the former 6 lbs and latter 2 lbs

> 400 light country carts 350 Maltese carts 500 pack tattoos

The strength of men would be 1 000 in round numbers, and the daily intions of division 8,800 lbs They could carry supplies as follo vs -

V 11 ·			lbs
350 x 1 200 lbs	4.		420 000
400 x 600 ,,			240 000
500 x 160 ,,	,,		80 000
		Total	740,000

Assuming regiments to have carriage for light equipment, and Labors reduced by substitution of cacolets, 10 days' rations would roundly be-

gunners horses 600 3 feld britienes) Nat ve infintry 18 000 210 000 followers. 6 000 120 000 1 thout 2nd > 120,000 poutes, &c 900 regimental biggige, mules, followers 4,000 carts &c 72 000 British infantry . 4000 100.000 (runsport train (as above) 88 000 Total 740,000

If one half compressed provisions were used, there would be 25 days' sat our

Brigad er General C. J. Godby ommanding Punjah Front er In time of war I would have the establishment and system recommendel by the late Colonel Nicholetts copy of a hore memorandum. I

emekner The present moverble column establishment would be sufficient for troops moving to repress local disturbances

L outenant-Co each C LaTouche Conmandant Poons Herse

Fide answer 7

^{*} Pranted after Br guder General Godby a anaver %0 9

La uten at C a 1 J H.P M 1 colm a Comm ad a 3rd S ad

The office oh res of the transpot would at once proceed to the men of the diffe ent villages loe names heln eg ered and require of the at e umber of an mals they e bou d to supply Tice would be handed over to he est in ment and with the ad of a few men f om t e 1eg ment I feel assured they could be clothed and drilled an a fevd ys Of couse to othing ad arms for the c melman would a vays he n eg nentlich go Irinsport n suppless on of loca de tu banc s would e po ded n the same a

Ma A P Palmer 9th B ngal

On war ireal ng out it ee cle supe n endents would usume charge of the transpot heel fell force the jersons assent the go or the lock dutes and when age note the new the clear of the direction by, d g org n to nd filling up crossifies from the registered c. rage (v. e answe 19)

Officers from the rolls of re one tal transport off ors would be selected as a s st ut super ntend ents of transport and non co messoned officers and near (f possible from corps not de alled for serv ce in the field) oud be attracted for duty with the dip temental transport bit e rate of one

Native sold are 100 and miss and one B its non-come somed off corming a constitution of the registered chool as n b chorders & would be eled p and as butter.

The pay of a sent super numberals of tanspot and of British and Native sold are would be the same as a the late Afglan ar

To Government urchased camels the Astave establishment would be-

1 na b ehowdry at 25 per 400 camels 1 munshi 20 400 12 100

l jemadar

No m ss ldars as t present In ocal ds urbanecs a con lerable ame at of tet ansport would be done by ral and circle superintendents should be able to be from their egisters what arrange non so ould be necessary for collecting an mal car age at the points of deburkat on

C los I H S Obb d C menand ant 41st B oal Infantry

In time of varit shamework would be filled in lye image of the description required being I ed or requisioned. Off es of Adave reg ne is slould le be unde the sicm I docate to put their hands on t mmed tely Under colare l poccdure t vil

never be p oduced at sf etc y Tie ways and me n of court offic als and polce are really wonderful nithe first of ev offices nithem samest ne dible. I speak f om personal experience extending o er a ve y long per od doing which I have seen much on both 8 des

The frame vo k of super ntenden e we ld be filed in by d awing on re, ments for officers and

men to such extent as m ght be necessary

To the rep ess on of ocldst bances theer age kept up for moverable commus shoulds files It should always be pack or cool e see ans

Co D Dand dg o F le answe 7

Le tenant-C on 1 H Wer y Command g 7th hata o Infantry

(a) Pe sown I of office s from reguments not employed on service of non-comm as one-3 office s from cav 1 y and rt lie y of mon f om t e e I populat on Clott ng and equipment a sufficient quant ties for necessed e tablishments slould I has be e t a sto e

Masses et any summers so out. The subset of t on from such lab sty to be obtuned by me us of a tax on carts and n mาs

(b) Regimental transport supplemented by local ad from the cv!

L en coan Col nel R C R gers 20 h Panj b Nati e Infan y

By 1 contractors and c upr sss he would s c the cattle and carts of e c y v il ger unable o un 1 ng to b be 1 gh y enough for the r exen ption

Les enan C n F B Aerman Command a_o 24 h Punjab Astro Infantry

As rega ds anspot for troops mong to epre slee I d st bances moe I le col mas are kept up for this pu pose and the car a rays be la gely and r p dly augmented by ea age obta ned thoug the c I autiontes o commesan tagents

L steen t-Co on H St. G Tuck 41 ha o infantry Superm d nt. Tran port Trans 41s ha we infantry

In the manne desemb d n the pre-cor morer: a nahatever province the distablements of the first state of the tendens with a sai uts to coloct the nece a yea _e dle could a ou ze the mo a bo olumn are t the nac. at ons Tho rou ze the mo a be olumn are t then a c. at one Tho framewor of the ntre t np t could the be filled n the creage d v ded nto reg men al dep rimental unl gene l nd as stant super n enden s and European and A t o subo d na es ppo nted ho o ld take all the rorde s from the dree or o the super n end at a charge of the tran po t

Mojor A. C. W. Crookshank Commanding 32nd Pronours

Beginning with the lutter part of the question, in case of a disturbance the local transport officer would at once tell the commanding often what carriers was mailable, and in what time more could be get by requisition, or by calls on other stations

The officer commanding would then wait, or detail as many troops

as he could move, according as he thought best

Even if there is no carriage wall-ble, troops our generally go out for a week or so without it, carrying two or three days' riviens, ment following on its own legs, and flour being generally procurable in Indian villages, also wood to cook both with

In times of war, regiments muching from their stations would receive their carriago complete. and stick to it All other carriage under the orders of the commissiony general would be at once drufted off either to complete regiments near at hand for their murch, or to the bases of operations for general

purposes

As the carriage arrived at the bases of operations, it would be taken over by the transport subdepartment (I have given in reply 13 my views regarding the tanning of transport officers). This would be organized from the officers who have been trained in peace, and consist of field officers as superintendents with a officer rank of assistant commissing general captains as assistant superintendents as deputy assistant commissaries general, and subalterns as transport officers as sub assistant commissaries general Officers of the commissariest department with special transport aptitude might also be selected to a small extent

also of success to a summ extent.

The community-general of the lorse would beer office the head of the transport, and have a transport assistant. The community general should thus be assisted in peace time.

The two departments could thus work together unitent introta and yellows interference.

I prefer the transport as a sub-department to making it altogether independent-

(a) because it is very undesirable to multiply departments ,

(6) because in peace time the commissariat department must utilize and have charge of the

carriage,
(c) because as a sub department it would partale of all the prestige and advintages of the

(d) because it would have the entire department in India to draw on for subordinates of experience. both Europeans and Astres

Carriage would not thus change hands and the personnel would not, at the end of a campaign,

when all the transport officers have gone find themselves nobody's children, as happened after this campugn camping.

Transport officers should not be considered non combinant. They should command their charges, except when a sensor officer is present with the exect. In they would then form part of his staff to the company of the company

tions, it would be tal en over by the transport sub department elothing &c , supplied where necessary, papers, &c., put on regie, and then be distributed to regiments and departments, or organized into convoys as required

Mayor Sir B P Brombond, 48th Native Infantry

I have rheady said I do not recommend my framework in time of perce The regimental transport system would easily supply all the carriage required for troops moving to regress local disturbances. If, owing to the disturbance being local, the usual local carriage was not fortheoming an adjacent district could certainly make good any deficiency on short notice Besides local disturbances do not occur without some premonitory symptoms and arrangements could, and should, always be made in time to secure the carriage

L caterant-Colonel J J Boswell, Commanding 2nd S bis

As stated in answer No 7, by district officers being requisitioned for the number of animals required, and by summoning transport officers of regiments not proceeding on service with a staff of inspectors (soldiers) Transport required for troops proceeding to repress local disturbances should be summoned from neighbouring stations

Lecutenant Colonel F T Born bridge 4th S Lbs

Regiments not going to the scene of action could send their transport getting fresh from the reserves of their district. Officers who have had experience in transport and with a knowledge of the vernacular, should be placed in charge of the transport of each regiment and department,

calling in all the reserves of men and entertaining fresh, bringing in all reserve transport from district, and beying more as a fresh reserve

Carts, wagons, gear, saddles, clothing, equipments, and areas should be always in store ready for any emergency When the war was over, the surplus animals could be cold gear, &e , returned to store, extra men

discharged with the option of going to the reserve (up to a cert in number) I think it would be cheaper than hiring carriage and work better, as all the men would be under control, and not independent like the men (owners, &e) of bired animals

Motor & G Ross, 1st Sikhe

Fill in by purchase of animals, beginning in time, and not minding extra expense, and by enlisting muletours of proper classes and duffidnes are ready

In local disturbance use the al eleton troops of each central depot, and for bilance required press carriage as now

Colonel W A G b Commandant 25th Madros Vative Infantry

I do not know how the framework would be filled in in time of war. but I suppose from the rund s of the army, who would be quite ignorant of their duties To repre s a local disturbance the carriage would, I presume, he requisitioned, as it always has been if the commissariat could not supply it

Colonel S Edwardes Commanding 2nd Bowbay Notice Infantry If a framework of officers, four communicated officers, and men were maintained during peace times as a greated in the previous answar, the strangth of the trum could be adjuncted in time of wis by increasing the annihes of men in evid troop. This would be more scally effected if measurated were belief out to man of the rapids many the exactly in principals, to serve three or four years in the trumput train as a let reserve and before pussuing into the Sand nevers. In this manner, on the outbrack of wan man would be furthermary exponented with disruptine and possessing a howering of the dutte required.

and measurement at the tumps of the tumps of the trops moving to repress local disteribriness, if on the fronter, the trum which I advente, being kept up in a stought in thirt part of fisher would be utilized if in the interce, then the rathways and a small amount of the train, supplemented by local means of trainsport, such is cooking, country carts, key, would suffice.

Colonel W Businerment 4th Born bay R flex. Colonel J I Willes Commissurer

General Bengal.

Lither by moveable column carriage or currage hired locally

Tor repressing local distributions trust to local transport or carrage, whichever it may be. It could always be moved up by raid on great emergencies, as has been done for jammers, which may be said to be almost chrome now and coch our has given some fresh a rail its Tor wit demands out of India; or for beyond the frontier Government must

never rely again on lurid currage. He has note for collecting currage is a himtel as to forbid any land of against roots as in the late was, then winterer curtivité numels each not look any land of against roots as in the late was, then winterer curtivité numels each not be lought must go with their original equipment. In fit new gest takes much mus The same normals apply to distinction. Ever y class was found equally nonexposment in the late war. Cumelmen, syeer I shaus—ill were utility nutramed, and were complicated in the late war. Cumelmen, syeer I shaus—ill were population to accept service, and the result was grand destrictive. The unifortunes one who were stant to the form was the dark must sent for the form when the same to war the product of the same who were made on and sent for ward or fast a made. but the Kandairu force norm in a claim that of course decade sould only follow the topog, which were ever advancing. Until this force halted, the clohing sould not oversite it, I hency the uniteres suffering for the cump-followers.

Colonel B. A. Moore Acting Commusery General Hadras The permanent establishment of elephants, comels and mules could not be added to in time of war. For the repression of level distintances, in addition to the establishment lept up recovers must be but be country back careful and pack bullocks, the fact being useful or grain and small arm aummention. In time of war the best plan would be in addition to

the above, immediately to nuclease and it is no commission from a 110 cent each with bulled a second about a Smart drawer of the puble with exhibitation could be promoted to settly officers and placed in charge, and coving draws have it is used into a necessary to have page, bulled as the results in explanage of the page of the property of the page. Supplement the nuclear is no explanage of the page

Lienterust Colorel M. W. W.I. loughby Act og Commis.ary Gen eral Bombay In tune of wer the fived establishments of energing and followers must be enginemed by the tempory entertuning of pred annuts and early, which should be modelled on the plan theory and divinement of the perminent establishments, and if possible combined with those drivations and worked with them. Additional officers and measures to temporary services. Transport for troops moving to repress local disturbances would be devicted from transport entries, see reply to question I, they prior.

Colonel T H. Sibley Deputy Commissary General Brogal.

The humans and men to disk entertuned and drafted into the trate, and dars might be done to the extented \$3.5 per cost without much delarment to the description of organization. To repress local distributions a few Government elegibints at stations would be used suppliemented by pressed or entertune him one control. It more entered statistication, and where time estantiated the fresupert train from the frontier stations would be more delarmated.

Columb M J Brander Officialing Deputy Commissary General Calentia.

The maided effect and ther embrainests also have elected for service to the transport department, as described in purgraph 7, would, on the first course of preparation for any, he armoned to test of these points above transport had to be collected, in order to the charge of and enganness the suggregation of the wires or a better, but of engine of the blash bland receive though their Gournment in a critical charge of their blash bland receive though their Gournment in a critical nature of the suggested of the surface of the substant that the suggested of the surface of the superior of the kind and extense of transport regards or such the presented for take of trains which I have suggested of both the presented for the property required for two sounds as a pipese and destrubence to be provided as all present, that is by their region of the superior of the prosent of the superior of the superior of the superior of the superdefining way more required through the choosens not and elizants. (1043)

Colonel J Keer Deputy Com messary General Lower Circle Boogal

If the department is sufficiently increased in officers of all grade as recommended there will b no difficulty in appointing officers to supertive and substributies both in the case of will or a local disturbance for the latter the moreable column would be available

Cal G S. Macbean Dy Comy Geol., late on Compat. charge Khaber and Kuram Forces

Is part with No 7

Colonel R Q Man vir og Do nety Aspartanet Communication beineral

The transport might be expanded as shown, when critic era be collected from over a lurge that of country in time of war, but to repressional disturbanes, unless Government maintains the transport from this down south the provision will simply be rumous to trade and agriculture, unless a large number of cuts are thrown out of employ when the rail begins to worl In the towns there are few carts or cattle beyond those required for local taffic, and the root only muntains sufficient to plough &c , and I ring in his crops to the nearest town and he will not his them it any puce. Seizing curriage stops local traffic and agriculture, i e , revenue

Leent Cel J V Hunt Dy Asst. Com i ssary General Beng I

See reply to question 7

Mayor W Lockhardt Deputy Ass start Commissary General Ilmbello

The officers non commissioned officers and privates who have undergone a course of training and been found qualified for employment in the trum-port department nould be available, and could be disafted from il ose regiments which are not required to proceed on service, to form the required establishment

The necessity transport required for troops moving to repress local disturbances can in my op mon with the assistance of the civil authorities always be obtained by hire.

Cuptam T F Hobbay Deputy Aret Comy Genl Landahar

I ale answer ?

J R B Hallen Esq General Suprest tendent of Harse Breeding ast ans

To premise as some transport minuals under the system here suggested nealed be present at nearly all stations so the troops should be regularly drilled with regard to the saddling I ading and unloading of the nucles also be taught how to remove the staffing from the prek. saddles and evenly replace it &c so as to prevent the chance of galls &c

Having a truspect train in sufficient amount to more troops on ordinary relief during time of pooce and then by giving means for teaching every officer and man how to lead unload and thus care for mule so would it be a very easy matter to office and man the transport train to any amount required for an army in the field and the person of of such a true would on occusions of local distinbance, or at the onset of a campaign, be able and fit for their work

9. The transport of an army is now usually divided into-

(a) Regimental

(b) Departmental . Commesswat and supply, ordernee and not Herr, medical and hospital,

enguarera

Auxiliary transport, chiefly hund for general supply purposes

(a) and (b) being under regiments and departments and regulated by the staff, What is your opinion on this division of transport? and (c) under commissariat

Lacutement General C T Clumberta : 0.51, late Consumand ng Qudh Divis on

So far as my experience in the field and in peace has faught me, I only I non- of one system of transport which has been general and entirely under the commission it

I le not consider the allotment of so much carrage to regiments and deputments as giving them by control over them. No responsibility of any land has been involved eve pt that of meeting the com assumit bills, and doing the b st to prevent the maltreatment of animals and

I do not see any object to be graned beyond two divisions, i.e., (a)

general for deputments, and (6) regimental

The latter certuinty should be quite distinct so that when sudden movements at at level, or dayled coloring to come necessary there shall be neither delay nor confusion and all details shall be subject to regimental control only

Lectenant-General Hugher 5 to Combinding Subject

I would put all under the direct orders of the officer communiting the da won, with the heads of both commissions on I transport departments at division her I quarters and executive offic is at high le head quarters The brigade reserves of transport entitle should supply the mants of departments, regiments, and latteries

Lientenant General J. Forber Commending Mhow Davision.

The division appears good

Major General A W Macenture c B Comma ding Hyderabad Subaidiary Porce

(a) and (b) must be so divided during actual movement, but at other times the cattle should be under the immediate charge of those with whom the general responsibility for their efficiency rests. It must be so divided (c) would necessarily be under the management of the department responsible for the auxiliary service required. This arrangement uppears to be the best.

Major General R O Bright, c.B Commanding Metrat Division

Regimental transport should, I think, consist of sufficient to carry crum councies, bedding unmunition—in fact, everything belonging to the regiment and a certain number of days' pro issons

The transport corps should have the conveying of everything to the regiments and to keep them supplied, and also all ammunition and stores

of every description The commissaint should have the providing of all food and the curying of all supplies of every description to ingraines formed as near as possible to the umy and moved forward as the army advances

Mayor General J W Schnesder e.e. Common dong Northern Dv-sion Bombay Allay

The division of transport, as above enumerated, is calculated to meet the requirements of the service. Corps and departments should be responsible for the carriage or transport supplied to them

Er g der-General G Barron's Quarter Master General Bombay Brigad er General F G Kempeter, Commanding Coded Distrets

I believe it is the best

Br gadier General T J Murray c n Moelfun Brigade.

(a) and (b) to be regimental and departmental. Mules and camels to be kept solely for these under transport officer (c) Also under transport officer

Colonel J A Tytler CB, FO, Commandust 4th Goorkhas

I consider the division a good one

up-an airangement which works economically

Colonel H K B me on Scere fury to Government of Juda Muldary Department

(a) and (b) My opinion is that all transport regimental and deputmental, should be entucly under the regiments and the departments to which it should be made over at the commencement of the campugn The general (c) should be under the commes cent A proper division, and one already maintained in India in time of

Colonel J Macdonald, Scenatory to the Government of Bombay, Mulatary Department,

war, though the commissarité department provides all the transport in the first instance, and before that for regiments and departments I think that during peace my such division of the existing trunsport will cross needless expense. At present the commissaint hold charge of, and utilize the small amount of Government carriage that is kept

Colonel A H Murray Deputy Adjutant-General, Royal Artalicsy in Islia

(a) and (b) being under regimental or departmental transport officers, I would not place (c) under commissional, but under a distinct and separate branch, with its own commanding officers specially selected, to alicer as not because you when only asset more bounced her bouselle of to clauses (a), (b) and (c) of question 7, have required some knowledge of the system

I out Cal A G T Hogg Depy Qu rier Master General Bon hay

The division of transport abovementianed is, I consider, judicious.

L sutenant Colonel H A Lettle Offic at ng Dep ty tasustant Quar ter Master-General.

Theoretically, I thank, thus days on of transport on excellent one, but there would be many difficulties in employ it into practice. Thus regimental excrage is supposed to be utbried by the commercial when required and with permission of the general. It does not train the contract to be regimental point if the very time it was detached might be

required for regimental purposes. All the curr go should be under a superinten lent of thansport, who, as the head of the transport department, would be the general officer's staff officer for transport, and as the next of the thanks of the partitions, would be the general otherwise stati distor for framsport, and communicated into with him as the reasonal equivant general or assisting querier making general. The offices best fitted for this 1 pointment would be 1 commission to office of the opposition of the proposition of the commission of the opposition of the proposition of the commission of the opposition opposition opposition of the opposition of the opposition opp This would present no great difficulty if each corps and each department supplied for their caringo labels to be fastened on the animals showing the number of the regiment Se, Se, and a ladge for the drivers the names of whom at the commencement of the operations could be a silv registered ac ordingly The sall ordinate officers non-commissioned officers and men mal mg up the department should angy. The smoothmete officers non-ecommessence discress and men man may in the discriment sheed; the supplied from every corespond depertment in proposition to the curs per experted on a wavege for their corps or department. They should have special charge in the carlle base of the carriags of their corps or department, and so in the intensity of their corps or department would see them make all corrementances well find and card for. Thus the advantages of the host-driving model by the transfer of the corps of department. Many discriments would be transfer of the corps of the corps of the many of th

Majo A 1 A K alcoh Deputy Assistant Quarte Muster-General

I consider the division a good one but I think that (c), though controlled by the commissariat, should be under the supervision of regular transport officers, and should be confined to bringing up supplies to a point to be fixed by the general commanding

Hured and undisciplined transport should not, if it can be availed. be brought within reach of an enemy, nor be allowed to hamner the movements of troops

Lacratement-Columnel R.S. Clehand 9th Lauters

It answers well if properly carried out, I should say.

L optenant-Colonei Lord R. D. Herr, Commanding 10th Hussure

(a) The working of regumental transport is not so satisfactory as it would be, were competent Natures wearing a ladge or diess as marl of authority, selected to fill the position of superintendents or choudnes These men should be responsible for the presence at all times of the regulated number of men with the camels that they remain with their respective animals on the line of march (the greatest delay and blocks on the read being always attributable to the diners trying all the camels on us read or falling out to smoke), and at the close of each day's much to see that the camels are duly fiel. This want of common precaution cost us thousands of crincis in Africanstan

Les tenent-Colonel J C Lo Quest e 12th Royal Lancers

The fighting men should not be compelled to look after their com-

They are solely wanted for worl Let, if requisitions be permitted, they could forage and feed themselves

Mayor J W Chaples 8th Hes

I can express no opinion that is really founded on experience but, looking at the "division of transport ' as quoted in this question, I think that it is good

Colonel J & Ruddell 1 2oth Re_o ment

I am of openson there should be one transport department, which should take charge of, supervise, and supply all the transport of the

I entenant-Colonel T Rowland Communisting 1 5th Fusal era

I would only have the one somes of supply the transport corps Regiments and deputments should indent on this for their requirements to be returned as soon as the service they were asked for is over. In to be resolved as we were supposed to have our own negimental crimings, but it was taken away precented, and returned in the same way, until I had no notion where it was It would have been much letter had it ill been tiken away ind given back intict. I would exempt the ammunition mules Then require special training, and should be left with regiments

Intertenent-Colonel A. Temple-man Common lung 1 21st Fooders Leoterusi Colosel G F Walker, Command og 1 12th Poot As far as my experience goes, at seems a good division

I do not think the division of transport could be improved except that I consider it would work better if the general or auxiliary transport was no longer to be under the commissan it.

Lorutennat Colonel J S Hand Command : L 44th Rog ment

When on a war footing, I think the division good but the whole should be regulated by tamsport officers under the director of transport, who should be an officer of the Commander in Chief's staff, working with the quarter master general

I entenent Colonel G H Furker 92nd H gislanders Major F Stephen 4th Balta son R fle Bra vie I think it is good.

The division seems good, supposing that (a) and (b) are really handed over to the departments named under these heads I do not think the arrangement sufficiently guarantees the economical use of the transport of an army. I think it would be better to

Maper P 9 Terry 1 250 King s Own Bonlesies

mail e the transport (a) and (b) a separate department in wir, leaving () still under the commissarrat I have hitherto been considering transport only under the first of these heading , (s) Regiment it. Under it I would include so much

Major Hugh P Pearson 12th

of the sib heading Medical and Hospital as would provide for the wants of a hospital under the regimental system

For the rest the division appears to be good

For departmental and general trusport a working staff of officers and men would be required. The calls upon regiments are so great that I am averse to add to them for the benefit of the The custom upon regiments we may opinion, any necessary so to do

Here is a field for the shifties of the general doing duly officer, who could be thus instituted without extra expense to the State. Here could be found employment for selected warrant and non-

commissioned officers and pensioners of the British service, who might wish to retire from more active duties, and yet be equal to many years' transport work, and for Antire officers and soldiers who may have left the service

These might be distributed according to their degree among t the several commands of the army It would be their duty to supply regiments and britienes with energy to settle with con tractors, to pay establishments, to provide food for transport animals to make the medices as an united with the medicin their district available for the expression of the system for war or other purposes, and to act in all matters as the local agent, and under the orders of the supermiendent

(1046)

Such would be their duties in times of perce

In was, they would form the wording and framed staff for the transport required under headings (b) and (c), in addition to the muon duties in connection with 1-gunantal transport (s), which would develor upon them whether upon quarters on in the field

Major J. D. Dyson Lanne, 34th Reguniat. I should be inclined to put commission and supply now in (b), and regulated by the staff (I presume the quoter mater generifs department) into (c), or the general division of transport under the commissional department.

Major W H J Clark c 72m2 H ghlanders I consider the first two, we, (a) and (b), very good but the latter, general transport (c), should not be under the commission, that is charge of a regularly formed transport department.

Major G S White 92nd Righ landers The regruental liansport system, if more than a mee of eldon framework, would, if kept regruentil, be very expensive. If used nonregruentially, there would be constant recummentant, distributed and and great friction in the working, resilting in unit of interest and loss.

Col C R. O Erans, Communding Boyal Artillery Meant D vision I think this division of transport commendable

I ostenet Colord I Michae

[6] Regulartillary (b) deputimental —No chringe quenes desirable

[6] General should, I think, he under a distinct transport

serves, but the occurrence offices and establishment of this servee,

although quite distinct from the commission of, should be under the same

clust administrative offices as the community.

That is, there should be one head to two departments of an army service coins

Major H C Lower Command ing 11st Royal Artillery

When moving with thoops as a dission, each its own transport as above. But otherwise re, when temport is segmed for certain mitteral, but the stores be given over to the time joint department (sceepits being presed), and let that department the solely is sponsible for the transit from phace to phere is equired.

Mujor T. M. Hazelrigg Commanding E 3rd I oyal Artiller; I would put all transport under the commissingt.

Major tile Henble A Stewart Commanding I C Royal Hesse Artillery

It seems to no therist would be better to male the comme area of muto undependent of the trinsport of the unity, and thus used the task of mydring the movements of the latter in any way. The unity might occasionally be called upon to more rapidly and to be dependent for its supplies soledy upon the country in which it was beening,

magnitoconsonally loc called upon to move rapinal year or or expensions of the suppless solid you for the country in which it was beyong, and not upon the own containers of Such intragement, would not indefere with the transpot being occasionally lost to the commission of the suppless solid when not otherwise required. This solid those four excessit the contexts that different this son of the support, as under a few forms that different this son of the support, as under a few forms that the support is under a few forms that the support is under the support of the support of principal melical different this son of the support is under the support of the suppo

(b) Departmental | Ordinace and neer park t

Including regimental nespital, independent of principal me itea differ fordamee and ammunition under commandant 1914 utilies, cugater per park under commandant 1914 engineers included, under principal medical differs, clothing, under quartes master general

(c) Commis wat . { supply daily supply general

(a) and (b) being under regimental and departmental transport officers,
(c) under commission, with its own transport officers, all of course being under the orders of

(c) under commissional, with its own transport officers, all of course being under the orders the staff

Major C D Laurac, Poyal Horse Articley. It appears to me, as I read it, to be answered in Nos 1 and 7

Mujor P Patrix Gallway Royal Artallary Tri mg it on the whole, I think it preferable to the general system, all ough it applies more to the transport of Lunopem armies, which is all wheeled curriage and less builty than our trains

Major W H Noble, Reval Artillery I then all trusport should be under one head but on field service, or for this portion of the army which should though be kept on an immediate wer footing, the transport might be divided into regumental, departmental, and general

For general supply of an army in the field the stage system should be adopted, added by the contract system

I enterent L. C. Noce F.L. No. 1 Hazara Mon ta n Batters, Lungah Leonis e Lorce

I consider this a good distribution of filter, but each arctical should be complete in its catalitation. By this giving with income that department the data of supervising its our transport, it will be to the interest of each to make his own transport, at will be to the mitterest of each to make his own transport, as discline as possible.

interest of cent to make my consumer of the co

and to whom they have to look to for the r pay clothing &c. The rigamental and departmental transport should honever be under officers of the corps to a lach they belong the whole inter or comony of each transport; usum, it rough the efficers hands to the chief transport officer am larly as it would do not forme to there only half the transport of lept up

The community and would reque a special officer to superintend their tran part. their own work The commiss in the world right on a peer a content to any entranse term team pairs to a form work being too be my totallo of a yaddy to any of the filter its framapor that offer being of course of far as yo while the offer and of as you change of the largemental framsport in time of peace. The offerers so employed should have or, receive a st fi allo nee for these ad I to al duties

Colonel O Walk seen and Ben gal Ca airy

I think that the administration of transport of ould be entracted to a single department. But I think expenses might be greatly a olled by employing non commissioned office s and Natives rather than comm as oned off eers as was the case in late cumpa gra

Co onel Hugi Geu_i Commandant 12th Bengal Ca al 3

The dr sum of the transport detailed as fer so tra is nathout doubt the best hitherto tried

Brownd or Gene al C T Godby Command a Linux blevoi korce I m st refer the Commas on to Colonel \scholetts' excellent memorandum for the reply to this question subjoined -

Menora I a by LIEUTENANT COLONIA G NECECLETTS Can me da i 2011 (or o d Bel el) Bey nent Robey at el fa try o the fo at o of a transpot tra callet for by the Q arter Master Ge cal of the fr ; ta lette No 190F of the 28th Marel 1879

No Government could afford a time of peace to keep up in immunit of carrige's fice out for sich in force is is no operating in high stim but the Collect a of a mage d ffeult es attend ng ti e col ect or and maragement of

carringe would be much reduced if the resources of the country in that re peet were more a curately kno vn

It would not be difficult to register the names of all corners of camels carts and mules in a district and the number of eich which the o ner might be expected to fund fealled upon. These neg sters might be per od cally revised by the civil officers and after end we ston returns multi be made to general others command ng d strets of the amount of carrage are lab e ullun tier com mode to general observe commanding of six cles of the amounts of courage way labor. All in the commands made game of comparison of these separates rotten as might be award as the quantum medicage of the control of the did not be described. A shelton map of the control with each of it did not be control of the did not be been speed each six of centered would be also at a ginner be corresponded to not consider the same and to let extent and the control of the control control of the did not be control of the did not be control of the did not be controlled to control of the control of the did not be controlled to the did not be controlled to the did not be controlled to the did not be did not the

at present

It ould I belle a lie very beneficial to Government and cause in chiless hardslip to individuals nitive y tent the contensed was and recess a more generally dank to see you want you causely notice

regard to con ous

To me ton one advantage only Wien earrage a get by requation from out and order a great deal of t belongs to men own up get apatro or three numbers only Wien any or perbus all, of three die can'ty in can p gri the less to the or ner is great and the pay that he has re ed less not ner by cover it. This is sheen the case in many instances to my knowledge in the present cam and it is difficult to see low in such i stances con pensation can be refused

On the other h nd I the centract system is donted the try g on at present rates to the contractor for large numbers of an mals not it enable i um to take this sk upon hi need? and it yould be

his intere t to see that eve y nos ble care was taken to reduce mortal to

As soon as carriage is collected he quest on of Organ sat on of enemage organization arises and for the purpose it may be

divided into three her is-

(1) Reg mental carringe (2) Departmental

(5) S pply con ojs &c
and the principle to be left in view in organizing a transport corps would appear to be that it should be such as vould e retle curr ge ber g-

(1) all avs adequate to the wants of the farce) als 3s ready for mo ement

(d) al nys the best possible condition

The first req is to a un organization a call com to be a director of transport. To e data at would be to a persuse all the transpot off r under Dur eter of managert

I im to keep the component; arts of the force adequately supplied their rage to live a sufficient recream land for the supply of defe ences to pirel a c support to the range to reversion beauter covering and not accompany or one concerns or primaries and also accounted Grover me of beauters and to arrange for reinforcements from the re. In short to keep I medicatall times perify the generated with the west it and provide the concerns to the force a liting oil semment attention to the poduction of the means by which the crequirements of may be set as so as they arise

Pie real r quiete a colid appear to be transport officers fo bargades assited by Antale non Transport officers of a code Tron por officers of b gode not on feld service and selected for their abilty to keep accounts and, if possible, for some acquaintance with the nature of the animals they would have to deal with

The brigned transport officer would have charge of the departmental carrage of his brignede, and

would have an in-hands the symmeter of all centurys, departmental and regressive currys or an origine, and
would have an in-hands the symmeter of all centures, departmental and regressive
The non-commessated officers and soldiers would be fold off to all departmental centure, and it
non-continuous officers and more of trainers to any
necessary to the of the topean corps and butteres in a proportion of about one non commissioned officer and one soldier to 100 camels or more if requisite

These men would assist in Leeping the camel recounts and would see that the mimals under their charge were properly fed and looked after by the cumelmen-points on which the men themselves

cannot always be trusted, as many me too stingy to buy food when necessary others are sevents and not owners, and are exceless about other people's p operty and others are only too glad to get and of their crimels in order to be discharged from a dissignmental earlies.

These officers would be on the lines of communication, each in charge of certain stations, and the

enrange under then control would be organized in the Transport officers of supply same way, under non commissioned officers and soldiers

In case of convoys, these latter would always, as far is possible, accompany the divisions of carriege to which they were attached As a large number of European soldhers now pass in the Nature languages at might be possible

Dangean reg ment and art bury for Lunopean riggs units and artiblery to look after their on a currency. But as thus would involve a good edge of exposure, and a browledge of language does not necessarily suppose a knowledge of Natuce, st would purbally be better to arganize it in the same may as departmental correge, but to give it over to regimental charge in every respect except as to payment

pinontal courge in every respect exactly us to payment. The courage of Natar regiments should be entirely handed one to them, except as to payment, which should be in the hands of the transport other Native regulacula This carriage requires no assistance from non-commis-

stoned officers and men of the transport corps The pryment of carrage should be entucly in the hands of the transport office a for screen Payment of earnage of lengade.

reasons the extrels of a brigade me apeth constant quantity but the number with regiments is lungs varying Transfers from one regument to another, and from regiments to departments and bid again, are continually hup ening. For instance, a force is edded to move with 16 days provisions per regiment. This at once necessitates the transfer of a number of camels which have high to been in some other change. To take over regumentally all the accounts connected with there fresh camels would involve much work and to trussfur them all beel again when the camels are given up would

moths more therea when the cruers of all savings in a lab for transport effects to be an appeal of the proper side of the cruers of the savings in a lab for transport effects to be a great a form of the cruers of the cruers of the cruers of the cruers of the cruers of the cruers of the cruers of the cruers of the cruers of the cruers of the cruers of the cruers of the cruers of the cruers of the cruers of the cruers of the cruers of the cruer of the cruers of

Help to happen.

Define the transport was organized by its appointment of invarient officers in lengther with its more, regiment to bird great trends about the princers of cannelma. Comula were tell an way from them, and others send in their places. Some of their owners had the same, some onle some which we have the consensation in the same of difficulty and in some ledged to having received pay, some denied it. Consequently it was very difficult, and in some instances impossible to settle the accounts

Since the Langort discrete were appointed, and have (a) on this tota their on a 1 and every thing iris gone smoothly, and it does not maker abelieve northin number of comels are talk on a common or mother or anth commission of the language. If the causely permanent I bray the 1 guilds, the or unsect or and commentation of consense at the consense permanent little the lightly that part officer enters the fact payment in the effects now, not is, the them of it is fools, and if our question make about them references it is a noun i here they came from and the transport officer has their accounts, whereas at first before the introduction of transport office it in [I the near any to write to half a dozen regiments before the necessary in form then so did be got

Summers To summarize the above, it is proposedlef, that the available carrage in every collectorate in India should be registered, and periodical

returns made of it. 2.1 that on the breaking out of war, a truspect corps should be formed of director of transport of terms of the goldend of some at an and of Antice non commerciated officers and solidirs, 37% that the director of transport should give his time and attention chiefly to the keeping up the

s upply of earnings for the force, 44, that a transport officer should be appointed to each brigade to talle charge of the departmental

currings, and to keep the resounts of the whole carrings of the brigide, regimental as well as depart

mental tal,
off that the currage of European troops should be handed over to charge of regiments and biterres but should be firmished with non commissioned officers and men from the transport curps, and

paid by the transport officer,

Glé, that the carriage of Native troops should be in regimental charge in all respects except as to pryment

7th, that departmental currage should be entirely under the arge of the transport officer and super 116, that department is straige should be entirely market onego or the insupport other sun adjus-vised by rou commissioned officers and more of the irt ispect copy; 8% that the certaige of a pipe is outli be enganated in the same are and be under the control of trinsport officers appointed to the different of thems on here of communication.

In such a country as Afghanistan, where the carrage of an army must neces with consist

for the most part of camels, and where extreme cold is at times endered, where the griting is county and Clott per el font of expels for the most part unsuitable for the annuals brought from Ludia, it as andispen able that the utmo t aften on should be paid to their elothing and food

No comel should be allowed to come above the parees in cold weather without ample warm clothing, which should be made up and served out by Government, and there should be no cut and drad rules about food

I believe there is a rule in the transport regulations that if camels get less than a certain number

of hours graring per day, they are to have food given them best not of there are.

The test is a word illationess one, for more are cannels may get on their ground at once, and find food plentiful enough for a good meet, princess in another case they may be withouting about for the reme number of hours and only it cannels may be a training to the first the case the quantity of supplementary may be the state of supplementary manuscript to the same, and as the necessary amount can only be determined on the next, and the leaft to be registrated by the relationty. But it should be always a bloom allowed as for the cental as a debeate amont, and soon dues it subjected to much always a first the cental on a debeate amont, and soon dues it subjected to much

flucturion in the quantity of its food when kept in hard wells of barley meal and 12ths of chapped.

The ellowance of food to crucies in the Crucie, was elles of barley meal and 12ths of chapped arms with failing the black, 18 th of the first. There probably was lattle, if any, grazing in the Crucie, but the same may be said of most parts of Afghanistan that we have marched through

CAMP KOREBAN, The 27th May 1879

G NICHOLETTS, Levi Col,

Condt, 29th (or 2nd Bilveh) Regl, B N I

Latutenani Colenel C. LaTeuche, Commandant Poons Horse

I think the whole of the truspert enrugements should be under and datedy, thing his other from the querte under general, by dramon of authority would in my opinion be a matche. Commercial efficient here in abundance of work, to do into ordineral of institutes, and the head of the department would have umply computed in localization of the single department, without having the arrange for the multiform datable of transpert compared or the multiform datable of transpert compared for the multiform datable of transpert compared for the multiform datable of transpert compared for the multiform datable of transpert compared for the multiform datable of transpert compared for the multiform datable of transpert compared for the multiform datable of transpert compared for the multiform datable of transpert compared for the multiform datable of transpert compared for the datable of the

Lectional Colonel J H P Malcolaton Commending Srd Sted Horse Each regement should have transport for its modural requirements and seven days "nitones entirely under regimental organization and contion. The same for departments. The general transport should be a land of reserve for all requirements and under the ordanizes and engineer departments in (b), and under the commissional in supplies of rations and foreign only.

Mayor & P Palmer, 9th Bengul Cavalry The drumon is the best possible for a force in the field Transport officers when in charge, of currage temporary indicated in a department should, while complying as for as pess lie with all requisions of the contract of the department of his representation, preceive all his orders through the supermetendent of transport. No transport officers need be employed with (by general transport, which should be managed and entirely controlled by the communicant.

Colonel H S Obbard Com mandant flat Bengal Infantry Although trusport is made over to regiments and departments, and they should be held responsible for it under certain general directions a taill forms a poilous of the trusport train of the army, and I would have at all governed by one head

Colonel F Don bridge Com monding 40th Nat we Infantry

Fide answer 7

Colo el G W Praser, 29th Native Infantry (a) Regimental transport should, as now, be under regiments (b) Commissanat and supply should be under a speed transport department, ordnance and artitlery should be under regiments, medical, hospital, and engineers does regimental.

(e) Under special transport depuriment

I cutement-Colonel H We sley, Commanding 7th hatne infants Good, if the organization exists to a certain extent in peace, so that there may be no latter in the transition from a peace to a war tooting

For example, it is useless bring in elaborate paper organization for regimental transport if the litter does not exist, at all events in a skeleton form, in time of power

L columnt Column I J Walker I think it a good division

Communicant 17th Nate c Infantry I extenset C lovel R G Regers 20th Panjab Native Infantry

Good, but the staff should in no way interfere with the control and management any more than with any other regimental or departmental matter

meneri secures

The medical and hespital transport for regiments should be regimental (herd a)

Heaterant-Colonel F B. \ce was Compressing 21th Penjah Native Infantry

I consider this division of transport the best that could be devised under the sistem of supervision is proposed by me in inside 7—

(a) would be unkli regiments, the head transport officer of the divi

son inspecting the cattle periodically,

(b) would be under the supervision of the head transport officer,

assisted by the subordinates I have detailed,

(c) but Puropean and Nature non-commissioned effects and sepoys should supervise as in (b)

L'estemant Colonel H St Q Tacker Alst Nature Infantry Inte Superuntendent Transport Fram. 41st Nat ve Infuntry

Not good In my opmion all the transport should belong to one Not good In my opinion in the trinsport should belong to one department, and be under one head I quite agree in the adverbibly of dividing the enringe into three parts I seeing each part quite distinct. Still they ought to be all under one director. I or instance if by any needent any regiment should require extra critisgs to first a no for any locations and reguine sound require extra criming, to may an for furnished from the general transport as no other extrage could be any location and the criming might be required ungestive and if the general transport carriage belonged to another department, with other sets of rules and regulations, it would lead to great complication, and great delay and confision in settling the accounts

Major Sr B P Brombead 40th Artist Infrat 5

It is a bad arrangement All three, (a) (b), and (c) should be under one management (See next question and answer No 10)

Water A C W Crookshank Communiting 32nd Ponetrs

So for as I can aspert on this division generally maintains in Itda. and I believe the so called regimental systim to have been sagge ted by the experience of Indran compagns and marches In the Jon at and

and the control of influence of the configuration markers. In the own it am highest the configuration of the configuration of the configuration of the free ing the lives before a sufficiency of curringe could be collected and being pushed on to the fresh Under such deal that other-landanest urrangements every makeshift had to be adopted to differently push on food and men

The 32nd secan ed its carriage at Quetta, and retuined it throughout, and so did every unit on our side, and we had no trouble, except when in the Thull-Chotrili country the segmental responsibility was interfered with

I do not think the artillery and engineers should be departmental, as it is just as important for a battery or company of suppers and miners to have its curringe as any other unit. The arrangement should therefore be—

(a) Regimental, including regimental medical Commissariat,

ordnance field park (6) Departmental . medicul (brigade, &c) postal

telegraph survey

(c) General

auxiliary general transport for convoys and to replace easualties

(c) should be under regimental charge, every owner or attendant should be registered, I are a number on a label, and provided with a certificate showing his employment up to dute of his being made over to regiment. At standing crupps the curryage to be lent or given up as may be padged All carriage would be pard by regiments, who would render accounts to the commission expedient department

separates (3) should, in exactly the same way, be under the departments concerned, it should also be available for lead purposes, under the addess of the officer communities; (6) should be under the orders of the officer communities; thought the check communication officer.

and his transport assistant

Colonel H Busragon Command ing 1tl Sikks

I prefer (a) regimental as far as is practicable, (a and b) regimental

Lecuterant Colonel J J Boswell Commundring 2nd 5 Uhr

I would advocate there being only two sub divisions, regimental and general, both under trasport officers That it should be all put under one head, ere, transport

Leuteru t Colosel F T Bain br dge 4tl Saklas Major A G Ross 1st Silbs

I approve of a regimental being under regiments. Also arthrinee and utility and engineers being under those corps. Medical and hospital I cannot speak to

Commissional and supply and general staff and odls and cuds should

be under the direct management of the transport citys

(c) General (auxiliary transport) might be worked by commissariat of its own battalion

(regimental ordinance and artiflery,

N B -Transport

engineers, medical and hospital, would be under these departments meetly for feeding growing and general cars, disciplane and perhaps its a matter of distribution) pay, but all matters of clothing corresponding and because the runtimence, persons, &c., &c. should be not of the regist the officers of the time-port corpy, to whom the men recrift the momenta by regimental and departmental van over Miguenets and qui-mmis should be only working "guants over these postuous of the transport corps temperarily entirely to them

Col nel W A G b Come unlant Soils Madeus Native Is family

I think this division of transport is good. I think as far as possible every department should look after its own transport. It is more likely to be taken care of

Colorel S Edvender Command up 2nd Bombry Native Infantry

The transport of regiments and latteries should be in regimental charge, the remainder regulated by the officer of the transport trum

Colonel H. H. Fatnes Contarnal, ing 10th Bombay Nata e Infantry

I can only give an opmon as to regimental imagent which, as strictly consider should be wholly under regimental control I speal, as to efficiency, but I am alwait them may be communical reasons which would multicle against the plan. I believe the system exists in some future regiments and as found to answer.

Colonel J Furtherther Community 22nd Bunkay habite in fautry I consider it a good division but I am of opinion that it would be better to place it all under its own officers and staff, and let thom distribute it as required

L externat Colonel O V Tanner Commande g 29th Humber Astro Infantry I thank this division good, and the regimental it report should never be interfered with, or taken at my for other purposes, as it was in

Colonel † I Willes, Communisary-Graceal Stogal. nner de niterfered with, or taken a vry for other purposes, us it was m the Kundhar column in Afghanastru

It cannot be said that the transport has jet been divided as detailed, it as simply being tried in a very crude ury. To judge from the logical less state of continuen in which the lat Drisson Albyber Jose currage.

we given up to the commerciarity after the way, I should say if I was not sugume that in other dramons there was more system, that it was a most sufficient failure. The first years to be considered and the first necessity for images; for man my is do not it has to have officers what I is an interest in the dutes, understand the language of the attendants, then write—publicate to history to their works and greatners. A more medificant loop of others with the write—tong, if an ever unde available for images and up on the list war it is improved to image in an ever made available for images; and up on the list war it is improved to image in a set of the state of

cannage and one occurs assumed a secretar water bytest and in the second would have been more enally settled. There more effect and the accounts would have been more enally settled. There more one a greate matched than attempting to lave a separate trasport without "city to organize it? It was unapire catabage canals, make spouse, any sheet end citys here. All were present order to desert at the inite opportunity which was most off citricy done with the Auchdmil lover the history of which, if ever written, would tend more than unabung else to contain a my one that transport in India cannot to arranged for in a day as had to be attempted in the late wit.

Color et B. A. Morre Arting Commussary-General Madras This division of the transport does not seem swited to meet the mants of an impry in India. A requirectly spice in Citaryport is well edupted for lot I regiment of Native impry in cavilry, a love while not few. But for British infantry and early which first a few point service in one presidency may be removed to modifier or sent home, a regiment disposing of transport would not appropriatly rouncer and it would be better in time of was to within a commission of other for each regiment, to possible for all its sund in an appropriate proposed for all its sund.

Lee tearnt Colonel M W Wil longiby Acting Communicary Gen eral Bomboy I am of opened that the regimental transport (e) should be in regimental of time where the proper to questions 14 16 thin paper. The carriage for the departments (f) would be supplied from the transport time or insupport corps, and would remain at the canver of each department, working under its own differs and substraints. The working the time some differs and substraints are because it is the wrighty transport should, I think) be organized by, and in connection with, the transport than

Colonel T H Sibley Deputy Communicate Greenal, Benezal, The days on of the trunsports in my opinion good but the respons builty of community and departmental officers must be more electry unspecsed on them, and some datasets; entered thin in this compargn. The isle of the general and community departmental transport was dearled to replace describes, essablices, in mellicant cuttle money the represental transport unuals

Colonel M J Brander Official mg Dopaty Commissiony General, Colontin. The transport under the heavis (s) and (s) he not been I consider, required by the staff, but I as been out for the time being at the description of a stroked to have been as the staff, but I as been out for each of constitution of the staff of the staff, but I allowed to the general economics of them returned the commonwers department of garden economics for them returned the commonwers of garden need I quite opened of twenting with the commonwers the part of the staff of the staf

Colone, I Keer Deprety Con may eary General Lower C rule Bengal All should be under the comparement. Regumental community, supply medical, and houst'd are, but it present that ne not sufficient of all grades in the department. Hence particulty they may full under the staff and commanding offers

Colonel G S M chean Deputy Comm se sy Coreral Info se form ne se at of urge of the Lingbor and formum I acces

This allottent of the trusport of the army is the old system, which was worked by the commissioned department only previous to the Cybel campa gn. The curringe was made over to require the other departments, but it was commissant, and was looked after by Lenternal-Colosel R St. G Tuker 41% Anthro Infantry late Super ute deat Transport Trans, 61st Natu e Lifestry

Not good In my opmon all the transport should belong to one department, and be under one head I quite agree in the advantability of driving the earings into three parts I reping each part quite distimet Still they ought to be ill under one ducctor. For instance, if by any resident any regiment should require extra entings to male up for my less coused by describes of data, it would most bit ly) be to be furnished from the general temport, as no other carnage could be so quickly morned and the caurage might be require largestly, and if the general transport carriage belonged to another department with other sets of onless and regulations, it would lead to great compleation, and great delay and confusion in settling the accounts

Major Sr B P Bromboad 40th Butite Infa try

It is a b d arrangement All three (a), (b), and (c) should be under one management (See next question and answer No 10)

Wifer A. C. W. Crothelank. Command og 32: d Premers

So fu as I can recertain, this division generally in adains in India, and I believe the so called regimental system to have been suggested by the experience of Indian companyers and marches In the Joy ha and

Afgian cam jugas there was great continuou on up to the troop reaching the brees before a sufficiency of carriage could be cellected and being pushed on to the troot. Under such devil take-the hindmost an angements overy makes. If had to be alogical to alternately push on food and men The 32nd received its corraspe of Quetto, and retained it throughout and so did every unit on our

side, and we had no trouble, except when in the Thull Chotrali country the regimental responsibility was interfered with I do not think the artillery and engineers should be departmental, as it is just as immortant for

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(a) Regimental, including regimental medical

Communication of the communica ordunice field parl modical (imgade, &c) postal (b) Departmental . telegraph surer

auxiliary general transport for convoys and to replace casual. (c) General tres

(c) should be under regumental charge, every owner or attendant should be registered, have a number on a label, and provided with a certificate showing his comployment up to dute of his bring made over to against As standing complete the currings to be letter or given up, as may be judged expedient. All carriage would be paid by regiments, who would render recounts to the commissairst department

(b) should, in exactly the same way, be under the departments concerned, it should also be available for load purposes and the orders of the officer commanding (a) should be under the orders of the officer commanding through the clust commusariat officer

and his transport assistant

Colonel II Bossvagon, Command ing 4th Sakhs I prefer (a) regimental as far as is practicable, (a and b) regimental entirely

L'entenar i Colonel J J Bosnell, Catamand og "n i S'i.bs

I would advocate there beng only two sub divisions, regimental and general, both under transport others

Lorutement Colonel F T Bain

br dge ith Sakha

That it should be all put under one head, siz, trunsport.

Mayor A. G. Rose Ist Sills

I approve of a regimental being under regiments. Also ordered and artillery and engineers being under those corps. Medical and despital I cannot speak to

Commissions of the Commission of the Cruspert on 5 to the Cruspert on 5 regimental ordnance and artillery,

NB —Transport

engmucts, (medical and hospital,

would be under these departments merely for fueling grooming, and general erre, describine, and pen'nys (as a matter of distribution) pay but all matters of clothing correspondence with home, remittances pensions & & &c, should be worked through the effects of the transport correst to always the men revert the moment the regimental and departmental work is over Regiments and departments should be only working agents over those portions of the transport corps temperarily entristed to them

Pole of W. A. G.b. Communicant Leth Madras Natice Infractry

I think this division of transport is good. I think as far as possible every department slould look after its own transport. It is more likely to be taken care of

Colenel S Fawardes Commanding 2nd Bombay Laires Infantry

The trusport of regments and batteries should be in regimental charge, the remainder regulated by the officer of the trusport (ram

Colonel H H Junes Commanding 10th Borolog Native Infantry

I em only give in opinion as to regimental trinsport, which, as strong halors, I conserve should be wholly under regimental control I speak as to give easy but I am strict their may be economical resons which would multitate against the plan. I believe too system exists in some fronter regiments, and a found to assure.

Colonel J Parkeed or Command: g *2nd Hombay hat to in fantry I consider it a good division, but I am of opinion that it would be better to place it all under its own officers and staff, and let them distribute it as required

Lecutement-Colonel O V Tanner Communing 29th Humbay Nature Infantry I think this division good, and the regimental transport should meter be interfered with, or taken away for other purposes, as it was in the Kandahar column in Afghanistan

Colonel I I Valles Communicary-General Bengal It cannot be said that the transport has yet been divided as defuiled, it is sainly being tred in a very crude way. To judge from the hope-less state of confusion in which the left Divide North Klyber bore entrage was given up to the commissions after the war. I should say, if I was

not sugame that in other drivanue there was more in strim that it was a most other factors. The first point to be considered, and the first mercest for trumport for no may, is 6 tere to them to have officers which the an interest in the dates, anderstand the language of the alternatus, burn vanits—patience to listen to thirs material and great most of the later was it is impossible to interpose that the companion of the stripping of the strippi

Colonel R A. Moore Acting Commissory General Madras This division of the funsport does not seem stated to meet the wants of un army in India. A regionated system of incapacits well adapted for local regiments of Native integral is everly, whose wants and few. But for Buttah infinity and carally, which there a few persistences in one presidency may be removed to unother or sent home a regimental system of transport would not a piacetilly makes and it would be better in time of war to stituch a communisarit office to each regiment, to provide for all its wants.

Lostenant Colonel M W Will longly had up Commissary Gea scal Bombay I am of opinion that the regimental transport (e) should be in regimental thrape see upp) to questions 11 16, this year. The crrange for the departments (b) would be supplied from the transport temport corps: and would remain at the service of each department, working under its own officers and softentiates. The must have part should, I think, be organized by, and in consection with, the transport temporal tempora

Colonel T H Shley Deputy Consumary General Hongal. The division of the trinsport is, in my op non, good, but the responsibility of communding and departmental obsers must be more clearly impressed in them, and more distinctly endoced than this campaign. The whole of the general and conventual digital endiancement was abortled to regime destricting, cascallices, and inclinent cattle among the required frames of the destrictions.

Colonel M. J. Brander. Official i. p. Drijuty Commusary General, Calcutta.

The transport under the beals (q) and (g) h a not been, I consider, regarded by the strift, but her been only for the time being at the disposal of or threshed to regarded and the time being at the disposal of or threshed to regarded and department of every hing contents and the terr teture and pays, of order the general occupation of the retrieval to the general occupation of the retrieval to the comme card department. I must express of the reports under head (q) and (q) being successful the pays of the reports under head (q) and (q) being successful the pays of the reports of a large force in the field, and the method adopted in the result camping, of attaching at the last moment's number of mexpensed offers as an auxiliary branch to the comments, has been found a complete failure.

Colone I Feer Regult C n to s sary Guneral Loner Citel Bei gal All should be under the commissions. Regimental commissions supply methens, and bospied are but at present there are not sufficer of all grades in the department. Hence practically they may full under the staff and commanding officers

Celouel G S Vinchers Reputy Commo our General Inte Com a search elerge of the Klaylor and hurom Forces,

This alloiment of the trusport of the army is the old system, which was not ed by the commissivist department only previous to the Cabul campaign. The curringe was made over to regiments and other departments, but it was commissional, and was load of after by

the department. If that is now to be done by a new transport department, well and good. But if the carriage is to be under regimental or departmental officers, who are to work the cattle, and when they me expended to ast the transport officer for more, no amount of reserve obt mable will stand the drain. What will the engineer the ordinance, the medical officer care for the cattle? Work them out and get more, complain they are not good enough, and get others, will be then cry

The tru sport of the um; must be under the department that entertains it, and is responsible for it

Leuterant-Colonel J V Hent Deputy Assistant Commissary General, Beneral

I think the division of trunsport good. It refers of course to feld service. The drawback to it is that much organization is required. before troops can take the field with the transport in an efficient state of discipline

Mayor W I nel lardt Deputy sesistant Comm smry General Assistant Umballa

In the late Southern Afghanistan Field Porce the whole of the transport as classified in the above question, was under the control of the commissariat, as will be seen from the following transport rules —

The formation of a transport train having been ordered by Government for service with the troops At present 3 ass stants are renumedordered on service the following rules are laid down for guidance of all off cers concerned -Q ofts Den Gehrt Khan 1 The whole of the transport for the army in the field will be collected and placed under the immediate At present assists t superintendents a e required -

orders of the commissary general in the field or the For kel at senior commission officer present Q etta 2 The senior commissariat officer of each division Ders Of at Klein 17 At present there all be roon red Na will supervise the train of his division, and he will be tive off cers or mon of envalry assisted by a superintendent of transport train for each reg ments--For Kol at division -Staff salars.

4 superintendents of trusport, field officers or e ptains , Quetts . Ders Glass Khan 30 80 Rs 300 ,, 150 1 Assistant superintendent for every 1,000 camels 500 carts, or 1,000 mules

20 for jemadar 15 ,, duffudar b Native officers, jornadars duffridus, troopers of cavalry regiments, for every assistant superintendent, mounted •• 8 90% Tr

The attendants for camels and mules will be provided by contractors—one Camelman to three camels,

one muleten to three mules, one cariman to each cart

A naib choudry on Rs 50 to every 1 000 camels a mule choudry on Rs 50 to every 1,000 mules, a hackery choudry on Rs 50 to every 1,000 carts, those attendants will be under the orders of the assistant superintendents of transport

Detics of transport officers

A supermitendent of transport will be attached to each division of the army, an assistant super-intendent to each brigade to resist the military officers

office s Comp equipage language ammunit on 3 days press pour provide corrects.

3 Commanding officers will return to the commissional through their transport officer all private Sig ng rotams

Return of surples primate as ringu to transport of cors-lemate corn go here to be delited to communiting officers nonthly by pay department

Commanding officers responsible for care could have and custody of transport made over to them

Dut es of transport officers

To see il c condit en ef gear Dat es of trusport officers. To see tile coud tion of gour

Solution of graving grounds superiss on of graving

assistant out with cattle while grazing

Packetting of cattle.

commanding officers Such amunals to be senarated

assistance of veterinary surgeon called for

a confer nom one for each of reson:

1 Ass stant a per state dest for each to gate with

populated of Matters of these water commanding

The conference of the state of the st 2 Commanding offees will retain with their regi-ments all the transport required for the military equip-

ment of their corps and all private carrage, and they will sign monthly returns of the carriage so placed under their orders

carrings which may become surplus and which will not be required again (nor can it le replaced), and the transport officer will arrange with commissarrat for the officers countily by pay department renthly payment of all currage public and provide, commanding officers will be debited by pay department for the total private hire, as per the monthly

returns which they will sign, audit department officers will, therefore see that all private carriage has is recovered and credited in public recounts to Government month by month 4 It will be the special duty of commanding officers to see that carrige made over to their charge is lept in an efficient state, and no carriage will

Commissions states not contained to the contained by transport officers, unless satisfactory reasons are given for the cause of the cuttle having become meflecent reasons are given for the cause of the cuttle having become meflecent of their special attendance.

tuon to the following points -The transport officers will carefully see to the con-

dit on of the genr of all the animals

The mail chowdries to be forced to repair or renew

all unservice title gear 6 They will select under orders of officer commanding safe and good g azing grounds, and send a Native

7 They will see that all the cattle and stores are picketted in regular order, and in spots approved of by

8 A hospital for such or discussed animals to be formed at some distance from healthy animals, and

- 9 One line of march all the transport officers and their resistants to more with their respective Trusport officers to more with transport and to mear transport and to wear some mark whereby they can be distinguished as officer, of their transport train disting slang mark
 - 10 They will keep order on the has of much and with space attendants, 10 men taken from each batch of 1,000 camele, assist in selonding animals who To remove obstacles and relové an male have thrown or dropped their loads, and in removing

obstacles such as broken carts, &e

11 They will on occasions of the enemy attacking To place imagent as a place of safety when column as attacted and to clear road for troops a compay place all the animals in a cheltered spot until attack is repelled

12 They will want the naib chowdnes to putchase food where grazing is serice, and it will be ti or data to ensure the ranmals being well fed and excel To see cattle are fed and report perfect for, reporting all neglect on the part of the n ab chow-

dries to the superint indent of transport, who will recommend fines to be inflicted on the chowdry in all cases of neglect

- 13 They will endeavour to enforce punctuality and regularity on the part of the attendants, and To enforce p not not by to can re an male not being then will see that immediate not kept laden longer than is account than is absolutely necessary, by not loading before than are required to move, and by unloading them as soon after arrival at camp as possille. The transport officers will be in constant communication with the staff officers on this parties for point, so as to ensure
- this being carried out carefully 14 They will only comply with requisitions for cornings on indicate after they have been signed To comply with indeals only after passed by community the community officer of the division of integrale, sarried officer. of carrage should be made

To cresult comm assnat officer in matters of difficulty

consult the commissariat offices of the brigade or division 16 As transport with stores becomes ava I bk, it will be sent back unde orders of commi sanat Transport officers to more with cattle feeding stores officers to the depôts in r ar with or without convey, as OF DEGREE 0 8 the state of the country through which it will pass

requires and as the general commanding may decide 17 The transport officers will always return with the same latch of animals as they talle down to the deput and will bring up with them a duplicate of To carry up paymees

the invoice the owners of the carriage are responsible for the stores laden on then animals or cards

18 Transport for the ordnance and engineer departments will be made over to officers of those True per for engineer and columne departs cats to deput inexits, and an assistant say continendent of trans-to make a a ul transport of crto super se port will be defulled for diff with each of those departs. ments. Ca range that Lecomes surplus after expenditure of stores will be made over to the superintendent of the division

19 The supermissident of divisions will keep rolls of all transport and arrange in communica-S per niendent of transport of days on to keep roll tion with the commissionant other for the proment of the

of all transport on ners through the chondres To counters ga, all rolls of communding officers and

26 The superintendint of virusjoit of each division cliers will countersign every roll of earlings before sinding it to the commission officer for check and proment

21 All Government carringe elephants mules, bulled a will be fed by a cattle agent with each Government cattle fed by spirit to be superiorally brightle or division. These will generally be attached to transport off oers regiments or departments, and will be supervised by the assistant superintendent of transport of each bugade

22 The lated mules to be trained and organized on Male train of Lerei mules to be a gan and on Gos the same system as that of the R val Pinds and Peshagrament system at Rayal P's da & d Lushawar was mule trains

23 They are formed in divisions of 100 males unit Rs 15 per mensem, with two duffadors on Rs 12 per mensem, to enforce orders and

24 The loads fixed for the different animals are as Louds for anuscals which should not be exceeded fellows -

elephrats 16 to 20 mounds, according to size of animal camels 4 maunds

mules, 2

earts, 4 per bulleel

It is the special duty of transport officers to see that these leads are not exceeded, as animals will break down after a long march Care of elephants

Medicane for sick cattle

Post' on in column of each class for transport Camp equipare

Amanan to , mental stores and province caeral succe

25 Punted instructions regarding care, &c , of elephants are sent to each transport officer

15 In all matters of doubt or difficulty they will

26 Fransport officers will carry a supply of ordinary medicines and will apply for cervices of a retermany surgeon in extraordinary cases of three e

27 The general officer will direct in what position on the column of mar h cach class of transport is to be, and transport officers will enforce strict attention to this rule, and arrange that the different batel es of transport are reads to take up their position at the proper time loading animals before they are required will thus be as orded

28 Stores should generally be placed within a circle and the cattle placed outside all round. This Stores to be placed inside a circle, and cattle round outside.

formation is a projection against thieves, and is the best for resisting a sudden attack of the enemy on any convoy 29 To ensure rest for men and animals, the structest

Strictest a lence caforoid after dark

easier to enforce discipline by so doing

ments and departments or in charge of convoys recognized their responsil thty and lept up regular rolls showing deaths, recorpts transfers food supplied, &c , day by day and were so enabled to give all and every information regarding the transport, maling it over after-

silence should be enforced and flying sentries placed round Il cattle encamping grounds 30 In conclusion the transport officers much use great test and discretion in decling with the franc-port attendants who are nearly all hired men, speaking virious dielects. They will find Matrix solders and others of much "assurance in conveying their orders to the choose dies and attendants. They should therefore use these men freely in communicating with the Native attendants they will find it much

T H SIBLEY, Colonel. Deputy Commissary-Gere of and Chief Com missariat Officer in the Field Cupia n T T Hebby Deputy The division is satisfactory enough if officers communding regi-

nanls with documents complete

J R B Hallen Esq General Super tendent of Horse Breeding

Ass stont

Kar dahar

Operations

All transport should be furnished and allotted by the director and his assistants. Only one rate-held service rate-of tenings, and baggige should be allowed for every officer and man, and should under no circumstances be exceeded. Lallowise true sport would be obtained by the commissatist and other departments in time of war by indeat on the ducetor

Should the transport be a separate department, or should it be under the commissionat, in peace and tree 2

L sutenunt-General C T Chara berham CSI late Commanding Ondh Dresson

The general transport should in my opinion be under the commissaint in peace and in war. The work it would have to do will ilways appertum to that department, and there would be more unity of purpose if so organized than if there were a separate transport department

upon which the commissariat department would be deportent All the departments included under of use (b), question 9, now look to the commissariat for transport, and if the new system be incorporated in the commissant, the head of the latter would be the head of both and districts would be under the district or circle deputies commissarygeneral, who have all subsidiary unagements to make when troops tall the field. There has already been some expenence in the Klyber of the went of unity between the commissional department and the transport officers from the letter being independent, and it appears to me that separating the two is the weakening of responsibility, which of

I septement General W T Higgs of S.B., Communiting Serband

all things is to be depreented I think that both in perce and wir the commissionat (supply) de-partment should be altogether assumet from that of the transport,

Les teamt General J. Porbes, Commanding Miner Division,

No, it should not be a separate department. It should be under the commissual, excepting the regimental transport referred to below. The latter should include the service ammunition, 200 rounds.

Major Genl A 57 Mac at re can, Com lg Hyderakad Sabsy Parce.

Under the commissanat

Major Ge eval R. O B gl 1 a m Connusanding Meerat Div subs.

Unless an enormous transport establishment is maintained in peace time, I do not see how it is possible to separate it from the commissariat in war time to the extent suggested in last answer

Major Ceneral H. R. Browne Command og Sauger District

I do not see that it is possible in time of peace to maintain transport to any extent sufficient to efford even moderate truning to officers and

men of a separate transport department.

The commission tellifers a quire this training to a great extent in the course of their ordinary duties, as they have a large acquainfence in the s urces of supply, and are accustomed to movements of stores and

I think on every ground transport in India should remain under commission direction

Major Central J W School der en, Com ses dig Northern Dis-son Bembay Army

The transport should be under the commissaint in peace and war, to prevent fraction with another department. This question seems to have been fully considered by the Committee appointed by the War Office in 1865, over which Lord Strathpairn presided

Begaler General G Berrout Onarier Myster General Bombay

It should be a separate department, and it is escentral to success that the officer appointed to its head should be carefully selected

Br grid er General F C hemp eler Con manda az Coded D stracts

A separate department, tetally distinct from commi sariat, both in time of perce and war

Bogol er General T J Marray, c n Mostan Bogode Commandate 4th Geerlins

If possible, a separate department both in peace and war, and certainly in war

Colonel H. R. Barne C B Sec retary to the Government of India, Military Department.

The transport both in peace, and was should be a separate department, and not under the commissions except as regards providing and keeping up reserve animals, &c , as recommended in reply No 8

Calcuel J Mando all Secretary to Go ter ment of Botatoy, Mil tary Department.

Under the commissional department in peace, and in war generally under that department, but managed by a district transport branch, for which a nucleus might be kept up in time of peace capable of expansion when required

Colonel A. H. Matray Deputy Admia at Ge coal R. A. m. Ind a

Yes, if the State can afford to keep up a well trane I separate estabhishmept, but for the sal e of economy during perce the curringe may be advantageously kill in charge of the commissariat department

I enterant-Colonel A G T Ragg D I to Quarter Master General Bombay L extensent Colonel H A L tille Official i g Dopety Ass stant Quar-ter Muster G speal Transport should be a separate department and certainly not under commissariat, either in peace or war. An department of supply can con-

trol transport arrangements so well as the multary commander Under the commis must in perce on war a separate department in the field presided over by a commissionat offices, who should be subject to the orders of no one except the general officer comminding. The

commissary general should in the first instance provide all carriage and all reinforcements for the carriage originally supplied such and all nunforcements for the carriege ougmils, applied such distincts being obtained by spheriton from the general discr connounding through the quarter-mutter general and ut, when such used by Government on the recommendation of the Commander-mutter general Discourances present and the commander of the Commander of the comman tendent.

Separate most cert unly

Mayor A A A A leel Beputy Assestant Counter Master General

In my opinion it should certainly be quite independent of the commesenat at all times

Locatemant-Colonel R Blundell ard Hussars

I think all transport, excepting that required by regiments to move them, and that required by the manage artillers and engineers to move them, should be under the commissariat. I don't think that it should be a separto department, but a department of the commissariat

L ex toment Colonel R. S Claland 9tl La cers

I should think commisseriat.

I puterant-Colonel Lord B D Kerr Command ug 10to Hussays

The transport should most certainly be a separate department at no time under commissaint control, whether in peace or will It is, I think, freely admitted that in war the departments should be distinct, but to amalgamate them in peace time and mangurate a new system on declustion of ner would be a cause of hopeless confusion, waste of public money, and inefficiency the result

L'enterant-Colonel J C. Lo Ques c 12th Re al La cors I referrat C touch C Co wa do g Lish Heavars

Regumental transport, managed solely by regument

Lock

Should certainly be a separate department

Major J N. Chaj la Sth Hassers

I consider that the transport should be under the commissarint in peace and war If not, I hardly see how they could be kept in a state of efficiency in time of peace

Major F A. Wood 16th H same

In my opinion it should always be a separate department, and should never, under any circumstances, be under the orders of the commisenni

It is a quite sufferently important and large business to require special men, specially trained for its proper execution The commissarist also have quite enough to do without having to undertake the responsibilities of

a transport service in addition to their own hillors Crpt va J A. S. Vlackenzie, 9th

The transport should be a department of riself, both in peace and war, so that there might be no clushing with the communication. The transport department would then alone be responsible for the carriage of the army

Appendix IV 7 (1056) Colonel J A Reddelf 1-25th

Answered by the previous answer (9) Regardent.

Lacente ant-Colonel T Roy la vil Communu la , 1 5(1 Fugal ers

Le terant-Colonel M Muegregor, 1 18th (The Boyal Insh)

Laca tenant Colonel A Te apleman Commanding 1-21st Pusal ers

L enterant Colo el G. F. Walker Commundate 1 12tl Foot

I externat Colonel G W Priget Comma ding 31th Regime t. L'enternat-Color el I S Hand, Com muniu g 11th Regument,

Leute ant Colonel C B ks onles, Commanding 67th Reg ment

I cuten int-Colonel G Parl or 92nd H ghlunders

Rifle Brigade Mujor F S Terry, 1 25th King s

Major F Stephen 4th Buttalion

Own Borderers.

Major Hugh P Peurson 12th

Major J H Campbell 33rd Regiment

Major J. D. Dyson Laune, 34th Regiment

Major W H J Clarke 72ud

Highlunders (upta 1 H M'L Huich son, 1 14th (P W O) Regiment

Colonel C. R. O. Evens Com-manding Royal Artifler; Vicumb

Lecutement-Colonel I ketchen, Royal Artillery

Major H C Lewis Command ung I let Royal Artillery

Major D T Hume, Comdg C C Royal Horse Artillery

Major W W Murdoch, Com manding E A Royal Horse

A separtment

It should be under the commissarint at all times

I have had no experience of the internal working of these departments, but the fewer departments a regiment has to deal with in obtaining the requirements of moving the better

I certainly that transport and commissaint should be separate departments, both in peace and war

In my opinion, always under the commissanat

Sepurate department, both in peace and was

Consider there should be a separate department to supply regimental and general transport at the commencement of a campugn. A nucleus of the transport department to be maintained during place, commanded by turned and experienced officers belonging to the department

Under the commissional in peace, a separate department in time of war

Separate, as previously suggested (unde answer to question 7)

In perce a moverble establishment sufficient for a fixed proportion of regimental and departmental transport should be handed over to a sub commissurat department for transport with autonomous organiza tion, but subject to inspection and regulation (so far as keeping up its readiness for um is concerned) by a director and inspectors attached to

requires to with a concerning open director and inspectors attended to the quarter naster general's department;

In wu I should recommend that this perion of the commissions department, are the regimental and department (e) and (f) expanded to requirements should be sparted from the commissions department and headed over to the director of transport, (e) all increasing under the commissions, as viso the responsibility of the supply of firsh number and restart the reference of the director of transport of products of the manufacture of the director of transport are recommend. indinied for by the director of transport as required

It should be a separate department, independent of the commissanat at all times. Its duties would be to supply every department and branch of the service with uithorized curringe

Certainly a separate department. By mixing two distinct services confusion only auses. The commissanat officer, however good, has sufficient work without having the transport.

I considered that the transport might have been administered successfully as a sub-department under the commissariat, but the experience of the late was inclines me to believe that a separation had better take place

It should be under a separate department, both in peace and war Separate from commissativat

I do not advocate a separate transport department for this country. The commissariat department, if made more of an army department and less a civil one, would in my opinion be more generally efficient for all war purposes

Separate as in last reply

The transport department of the army service corps should supply all errrage required by the commissariat department of the same corps, as well as to regiments and other departments both in peace and war

A separate department, responsible to the quarter master general

It should be a separate department, both in peace and war

The trunsport should, I consider be a separate service in peace and war The commissariat officer would have quite enough to do without

the transport By having the trunsport separate, you would get officers who would study the subject Regimental officers might be attached to a transport establishment for a short time for instruction

Major T. V. Hazeli gg. Com mandarg h-3rd Royvi Artiflety

Major the Heable & Stewart Commanding I C Royal Horse Artiflery

No —It should be under the comme wat in perce and war

The trusport department undoubtedly should be a separate department from commissarrat in time of war, and therefore in time of peace, as nothing is more fital than changing a system at the critical moment

Meyor C E Narrae, Royal Horse Artillers

Undoubtedly separate

The commercenest department have already more work than they can properly perform. The only transport they have under them in peace time that I I now of are the bulloel's for second line wagons of artillery, which are almost invariably neglected and out of condition, and that this is from imperfect supervision is shown by the fact of their improv ing in condition directly they are made over to batteries for march or

Major P FitzG Gallstev Royal Art Bery

No only a branch of the commessanat, which latter should be divided into supply and transport, but both under the same department in perce and wir

Major W II Noble Regal Artillery

I am na favor of a separate transport department The legitimate duty of the commission is to provide and issue aupplies

Ne u tor ultra cremdan

Captam G C Bayley, 18 8th Royal Artilbery I culcurent F C Waser HA

Tide answer 7 A separate department in peace and war. For all questions of transport the commissional should be considered as distinct as any other

P nah Prontier Perce C le el O W thu son 2nd Bengal Ca ulry

deputment Them what I saw and heard on the frontier in the late campaign, I think the transport should be a separate department

Colo el II gl Gengl Commund ant 12th Bengal Cavalry

G Genned 2nd

Capta u. M. G. Control In his Hors

Should the transport be placed in a multiary organization, it should be a separate department, or assucrated with the quarter master generals department, but under no cucumstances placed under the commissiont

Brigod er General C. J. Goth Com andreg Punjsis krost er

A separate department most decidedly, no matter how skeleton the framework in time of peace As regulds supply it should be under the commissariat but that the commis and control over all carriage made over to transport depart-

Lee tenant-Colonel C Le Tenel e Co man dant Poet s Horse. Lecutena et Calonel J II P Nationame Coura and ag Sed S ad Horse

I am in advicate for relieving the commissional altogether of corringe arrangements, and having the trinsport in a separate department both in peace and was

Major A.P. Palmer, 9tl Be gal Ca alty

W th the except on of that under regimental control, I think all the test should be under the commissioned, both in perceived wer. The be larger than those of reputationis and departments No portion of the transport of partment that has a military organ-

Colonel J Doran Commanting 2"tl Pinjub hat ve Infantry

I should my a separate department, but in the case of Nativo army, I would a ggest the transport being under regiments both in peace and u u

tertion should be under the commissmut in peace or war

Colonel H S Otherd Comma d ant that hoters I that try

The transport should be under the commissional loth in peace and war But I thus at would be a good plan to appoint superior officers ns supermitendents of transport tide answer 7 (a)

Colonel F Dendr lge Commanding 40th Nature I fa ty Colo el G W Praser 20th No. t vo infantry

I ide answer 7

ment should corse

I entennat Colonel H. Worsley Commanding 7th Native Infantra

I consider it should be an entirely separate department, distinct from the commissions both in peace and nor

Have but little experience of the subject, but am of opinion that to would fraction, the transport officers should be subordinate to the commes, md Actual transport dates do not require the supervision of superior officers Active voung subulterns me quite expible of looking after

L extenset Colonel R J Walker Commandant 1"ds \as vo Inf utry

their own particular sections of the train receiving their orders direct I think the transport should be under the commissance at all times. but I would make it a more separate branch of that department than it 13 HOW

Lientenart Colonel R G Ragers, 20th Punjub Native Infantry

The regimental transport should be entirely under regimental control at all times, as should that of the artillery, the departmental and general under the commissativit or special transport department. All should be avulable for Government work at all times under the orders of general officers commanding

The commissionat (or transport of established) should alone purchase to avoid multiplicity of purchasers and enhancing of rates, all transport should before purchase be passed by competent committees, as are remounts

I cutement-Colonel F B Nov man Commanding 24ti Parjah Nuti e Infantes

Under the commissment both in peace and war. In wil an officer of the department, relieved from all other duties to have the general superintendence of the transport of a division, with subordinates as already detailed I consider it most undesignable to increase the number of departments

L'euterant Colonel H. St. G. Troker fist hat ve infantry i te Superates de t. Transport Trans, 41st Nat to Infaitry Major Sir B P Bromhead 40th

Artere Infantry

It should be un entirely distinct department, having its own officers, and should be under the orders of its own director, who would take his mater actions from the quarter master general, or, in time of war, from the general officer commanding

I am well aware that this is a burning question I however, after

my own experience and observation, have no hesitation in saying that the transport, at all times should be under the commissaint. In time of peace, it is stem of regimental transport be adopted there would be no regular transport be adopted there would be no regular transport catabolisment ket gut, and there would be little error for the commissionable to In time of war, the kengapot offices and men, would easily an extended decisional decisional and the commissional transport offices and men, would easily an extended decisional and the commissional and the com which will be commissions to the first me of vary, and writing the content and a women own given chairly chiral delives and seponshittens—see recompanying mean condium, and though silcolulated to it the commission the both in the first with them but him this commence with them to give them tone) to more conditions the first method from the commence of all its unspect regional, halping then to obtain forger and supplies for their called and drivers (in an enemy's country it in my hoppen that the commission is also also yourse of supply). and-this really is one of the chief reasons why the transport service must be attached to the

Major A. C W Crool el ank Common jung 32nd Piomeers

commissariat department-examine, audit, and settle all their recounts I have unswered this in my replies to questions 7 and 8. The transport should be entirely under the commissating department in time of peace and form a separate sub department in time of will

In time of peace the commissimat department, who mostly use transport, have a large framework aheady in existence, and the executive commissional officer can always act in a dual capacity when he has no assistant for transport

I deprecate separate departments Once everte a civil or mil try department, however small, and it begins to mall a word and grow I have a new stant is wanted, then a deputy, here a cleid and there a deal), che presses and office serrants multiply, ents, 80, paciesses, until m a short time you have an overgrown depriment which has to be ent down.

We have develop far to many depriments.

Major F F Ravirotti dili Georgiae

It should, in my opinion, be either in peace or war quite a separate department

Colm ol H Borsmagen Com manding 4th Sikhs

Separate entucly as a transport department, and the scener the bet-the commissional department has always, in peace and war, more than enough to do departmentally, and would, with the trusport addition, probably cause a breakdown

I cutenm t Colonel J J Boswell Commun drog 2nd Sald s I sent, Colonel F T Bas skradge

Entarely separate, both in perce and war, from commissariat department I am of opinion that it would be better to be a separate department

4th Sikhs Multer A. G. Ross 1st Sall a.

at all times It should be separate in peace and war, and quite apart from commiscritat In wer the transport should be generally controlled by the quarter master general or deputy quarter master general

Color of W A G b, Con mandant 2ath Mudras Latine Jufu: try

If expense is no object, by all means have the transport a separate department. The commissariat must have enough to do without that, but two departments instead of one means more expense. Perlings it would be cherper if it were made a branch of the commissariat department.

Colonel S Edwardes Commandiang 2nd Bombin A to class try

There should be one department called the "commissarint and transport deportment," and forming a branch of the general staff of the army. The officers should be conversant with both the commissanat and transport duties, and be employed as occusion required on either

Colosel W Estinguesu 4th Bombay Rafles

I am of opinion that the transport should be distinct from the commissanat

Colosel H. H. Tames Cox 1 and ng 10th Borbay Native Is 1 try Colonel J Fari rotl r Command ing "In l Bombay & tive Jafa try

Separate from the commissariat in perce and war A separate establishment in peace and wir

Lacutement Colonel G V Tanner Communication 29th Boules V 1

It should be under the commissariat, who are responsible for summly

Colonel J I Willer, Commissing General Beugal

All transport must be under one department, whether commis must be appeted that camels at one time in charge of commissarrat, can at another work under, say, quarter master general,

Colonel R. A. Mosre Acting Comm sears General Madeus

with "sertich' officers hastily collected together I say, let the transport—that is, every description of animals—be at all tames under one department. I am quite certain at the same time that no other but the commissariat can manage it, unless another department is trained to it The difficult task of supplying an army in the field is simplified by unity of control, and by all concerned working under one head and in one department Instead, therefore, of creating a new department such

as the transport corps, when wer breaks out it would seem preferable to

attach the additional officers required for supply and transport to the Without transport, the commissariat cannot furnish the supplies on which commissionit department commissivité apparament. Willout impsport, une commissione autous mariet une supplies on wince the subsistence of the whole army depends, and one of its chief dates which cannot well be disses end from it, 18'to I cap up the requisate transport. It is also upperts drussible that the department which in time of peace readers to Government the accounts for the expenditure for unny supplies and transport should continue to do so in time of war

Local Colonel M Willowship Acting Commissing General, Bom

The trumport should be under the commissionat, both in peace and war In India at the present time it is practically under the commis-sured in peace time, and the whole of the duties connected with its preequipment, employment and all matters of interior economy fall upon executive commissariat officers in whose charge it is placed, and to a home

it is indebted for such discipline and organization as it possesses but these dities in addition to his own legislands word, are too heavy for any one officer to perform properly and therefore in perco time in additional officer, who should be subordinate to the commissional department, should be appointed to the charge of the field column carriage at croal large centre. In our the head of the triumport should be subordurate to, and receive his orders from the commissary general with the force, the staff should be suppressed to, and selected his orders from the commissariat, under the orders and at the entire disposal of the head of the transport.

Colonel T H S bley Deputy Comm stary General, Brugal

The transport is so intimately connected with the commissionic, that I am of opinion it should be under it both in peace and in war

Colonel M. J. Brander Offic at ng Deputy Comm serry General Cal cutta

Both have been tried In Abyssian I believe a distinct transport deputment was kept up under its own director, who was subordinate to a controller, the latter being the senior commis and officer in the field. But I have been informed that the accounts, returns &c., of this the latter being the senior commis anut officer in the department at the end of the campugn were in a state of atter confusion,

and never could be cleared up. In the late campaign the transport officers were under the drete or tel of the commissionst, but owing to their wait of tanung, inexpense, and general unifities for the wolk, this system field. I rom both the above instances it may be deduced that a fully officered and a previously-trained body of officers to manage the transport in time of war is absolutely necessary As shown in my answer to question 7, I consider the transport should be under a separate department in time of war, but not in time of peace, the present commissariat organization being sufficient for such legu iements, and the transport ordinarily maintained being quite insufficient to give occupation as to its management to a separate branch of the service

Colonel J Leas Deputy Com m very General, Lo ex Carele, Bongal

It should be under the department which has most to do with carriage ws, the commissairt, both in peace and war, I can see no ground in having a separate transport service. It would, I believe, greatly add to expense, and difficulties would mise, if not under the commissional, I know of no training so excellent as that which an officer or warrant or

non-commissioned officer gots in the department for trusport work. New hands of any gride, with non-commissioners whose gives in one experiments are a superior what is their regiments have no deal-ings worth having with Natures, and can colour sperl the language, but thus they learn in times of reace in the department and they, if not stupid, learn good business habits, become self-reliant and able to set with confi lence and decision

Colon I G S Macbern Bepety Own our Ce or I into in Com mals rat charge of the Ki yber and Kuman Force

If the commissariat department is to be greatly increased in strength of officers and wattant officers, leave the transport under it. If not, sustitute a separate department, for at present commissariat officers have a great deal too much work on then hands, and will be glad of the r.hef

Cloud R Q Manustrug, Digaty Assent Commissary Graceal, homp or

The transport should not be a separate department, as the more departments there are, the more lutches there are in work, and the computerarist is completely dependent on transport both in perce and war

The al surdity of the present system of having the transport in charge of the commissarial and belonging to the quarter master seneral's department is glaringly exemplified in this contonment," which is four rules long from east to west ha upice the utillery or European regiment require a cart, the requisition must be

sent from their quarter in the extreme east, just this office, to the quarter master general's at the west end, whence it returns to this office in the centre and the order goes to the cattle lines in the east end Lither the quarter muster general's department should tall e charge of the cattle, in the same manner as the cavalry and artillery do, or at should be left entirely to this department, but this all (1060)

probably never be accomplished until English generals learn to consider an executive commissional officer as much a put of the working staff of a division as the assistant quarter-master general

L cutement Colonel J V Hunt oputy Ass stant Commissary Deputy Ass sta General, Bengal,

I consider that the transport should be under the commissarint, both in peace and war. Its separation from the commissariat during peace in peace and war is separation from the commissions during peace time would be creation of great expense, and I cunnot see how it can be worked separately, unless the supply of currings, is well as its management, be entirely taken out of the hands of the department.

The control of carriage is greatly dependent on the power of hinner and discharging it and the payment of the him. All these matters should be in the hands of the managing department

Major M A Rowlandon Ex answer of Commissarint Accounts, Bomlay

It should, I think be under the commission it in peace, and in war it should be a separate department superintended by commission officers specially detailed for the work, and relieved from all purely commissions.

Major W Luckhardt Deputy Assistant Commissary General Umballa

The transport department should either be made a separate department altogether, or, if placed under the commissariat, made to form a

separate branch of that department As it may not be considered desirable to create a new department with the power to dislurse public money, and as moreover there would be a general control over the expenditure of the transport department if placed under the orders of the commissing general, I would give the preference to the latter course

Captain T F Hobday Deputy is stant Commissing General

If it remains under the commissionat in peace time, there must be a considerable saving in expense, and if the commissarint were granted enough werrant and non commissioned officers to manage at in war, it would I think be satisfactorily and economically done with the hearty co-operation of commanding and other officers to whom the carriage might be temporarily made over

Without this co operation no department could manage carriage or prevent its getting confused and mixed up.

J H B Hallen Esq, General Sundt, Horse Breeding Operations

Most certainly a separate department

How can Indian transport be employed in time of perce? Can it be employed by departments, civil and military, or in such work as bullock trun, &c ?

L'entenant-General C T Chain berlam d.E.f. late Command ag Oudin Division.

It can take the place of the present moreable column currege It could work from Jhelum to Lunds Kotal and Jhelum to the Poswar Kotal

It could be utilized from Rawal Pindi to Murice, Umbrilla to Simli, Sabrumpero to Musscone Mordrichd to Num Ital, Barolly to Nami Tal, Shingero to Darjeching, Marier to Dicipine, Lucknow to Sitapur, and as feeders from rugo cutes to lines of failway.

The public would be considerable griners from well organized tiams,

but privite interests would suffer probably

as open to objection

I do not think the civil authorities would find employment

Legatenant-General W T Hughes on Communiting Sathurd

In time of peace the transport attached to bugades, regiments, and butteries could be advantageously employed by both evil and military departments, but under the direct supervision of the military authorities responsible for efficiency

Lagriceant-General J Porbes Commanding Mac Division

It could be employed in this minner in small quantities, but large

Vapor-General A W Vacantire C v Co in anding Hyderabad Subsodiary lorce.

demands on it would not be likely to use in times of peace The transport of this force is already to a certain degree occupied in meeting local requirements of the troops. Any employment that tales the trunsport of the army beyond the supervision of its own department

Major General R O Bright 0.0 Commandare Metrat Di 1900s.

I do not think it can to any considerable extent. In time of war all departments have more well thrown on them. Bullock trains, where cognaments and more word turews on turn. Dutlock turning, where they still cuts, become underspensible for the supply of the troops. If would be better, and I think a cherper plan, to multisher Natures to leep up a sufficient supply in the districts. It spages to me an excellent opportunity is now afforded for forming and utilizing a transport corporate to the case of the cas Kuram valley, and also the supplying of troops at Quetta, Peskin, and whatever other stations may eventually be held thus. This would give employment to a very considerable amount of transport, would be an ampayanes to a very considerable amount of trusport, aculd be an excellent opportunity of teaching officers and men their duties, of testing my system that my be adopted, and at the same time paying its way and doing good service

Monor General H R Browne, Commanding Sauger Butnet.

During six months of the year transport could certually be utilized in movement of troops by read to a moderate extent — But during the hot serson it must remain idle at the public charge, or be discharged

No doubt errol and malitary departments could affeed some comploy-ment if the rates charged for the use of public transport should not

exceed private contract

Bullock train work would only eminace one particular class of land carrage and not a class suitable for field service. Besides, any extensive employment of multiny transport in the bullock-trains would disorganuze that service, if the transport should be at any time withdrawn

Major Central J W Schne der, On Command og herthern Davis tom, Bombay Army

Tield column carriage is already employed by the commissariat department. If the framework of an Indian transport were established on a larger scale than the present proportion of field column currage, and it proved to be in excess of military requirements, it might be utilized by civil departments on payment, if they desired it

Brigad er General G Burrows, Quarter Marter General, Bomboy

Indian transport could be employed in time of perce by the com-missional and other departments, and in corrying out the annual reliefs of thoons The field column carriage as so utilized now

Bright or General F G Recap ster, Commanding Coded Business

Available for all military purposes in time of peace. Doubtful if it could compete with civil carriage. No such thing as bullock-train in Madras presidency I see us reason why it should not be so employed

Bagailer General T J Marray, C.p. Mooling Brigade Colonel J A Tytler en, ve, Communicacy 4th Goodkhas

I do not see why it should not be so employed

Colonel H. R. Burne or Secretary to Go crament of India Military Department

Some of the public transport can be, and is now, employed in station duties, gardens and ambulances for the sich. It is not maintained at a strength that would admit of paysiding for bulled, trains If it were, and the animals were so employed in time of peace, they would only be available for service at great and serious inconvenience in other directions, while it has always been found that Government animals left to the even departments are hable to be neglected and deteriorate

Colonel J Macdonald Secretary to Government of Bumbay Military Department,

Except in entrying Government stores, I know no other way of utahang Indian truspert during peace. The rites that would be charged for its use, if hired to the public, would prevent its being generally used by the civil population

Colonel & H. Murray Deputy Adjutant General Royal Artiflery in India

In station work and in certain cases and under certain conditions heyand the station in transport of orderace stores, &c , but not too for It should then be properly organized as for war, and thereby give opportunities to officers of obtaining experience in the working of the system There are few stations where ample work cannot be found for a certain portion of transport, certainly with benefit to themselves and to the advantage of the State,

Colonel D Stamler Ass start July bank General British Burma D vision.

Public cittle can be usefully employed in times of peace (where the moverble column system would not be thereby interfered with) under the rules now in force for the low of elephants, &c , to end departments, but I doubt the desirability of using Government draughs cattle to work bullock frams

Lendeneni-Colonel A. G. T. Hegg Dep 63. Quarier Master Ge coal Bopolog

In time of perce Indian transport can be employed by the commissarret, under orders of the mulitary commander, for station work and for ordinary movement of treops

Menicount Colonel H A Lattle Offir ating Deputy Ass stant Quar-ter Muster General.

I do not think my organization of the l indirected would be found to work well unless the country was handed over to the multary authorties and Government organized on a military system

Mayor A. A. A. Kinloch Deputy Assuran Quarter Master beneral.

As already proposed by me transport when not required for actual multary work, might advantageously be employed in station or departmental work, such as ploughing in cautonments, bringing in supplies for commission the lit would never do to employ number in the bulled trum, which would probably collapse on their withdrawal, at the very time that its services would be most required

Licoternat Colonel R Blundell, Ind Hussan

Speaking of places his a Mhow and Ahmedingar, the only stations I have been quartered at, I should so, that it could only be employed to a very limited extent. I would certainly employ it by lending it to the military and civil departments whenever they could find work for it,

also to exchan contractors under proper supervision The railway has done for the bullock train here

Lauterant Colonel R.S Clebard

Yes, if properly organized

(1062)

L enter ant Colonel Lorl R D Kerr, Communishing 11th Hussian If under control of an organized temsport department the available public causage of a station might moltably to allotted proportionally to the troops for conforment work with advantage to the public service

With respect to departments, evol and ministry I abould meline to see opinion so it as my braical moveledge reaches. To employ ministry teasport in a regult rear service in time of peace would be designeds and myshesous, for the withdread of this transport for wer purposes on defeature of bootstrives mould problem collage at the time when such a calcularly could be most fatal. At the same time the transport of Georgenment stores might be undertaken by the transport

L'enterent-Colonel J C Le Q'esne 12th Royal Jameurs

department

It could be utilized for the entire working of its own regiment

L coformi Colonel G Luck, Committeding Lath Resears

In my memoranium stateded to my amere to Braini Combys—3, I have shown doer trapacts points can be employed in tens of punc. I have shown doer trapacts points can be employed in tens of punc. Before, pourse frequencial for a superior graphers, moght I that, he carry obtained at very short further by substanting he large employed of puny labor that are sinus; at the number of punser that each would have to might being occasionally mustered by an officer of the communicant department and a vectorizers of superior superior such communication of the com

Colo el J. A. Ruddell 125th Resunc L. It might be employed advantageously, I think, in the bullocktrains, &c

L seien..nt Colonel 3f Haefire gor, 1 18th (The Royal Ir sh) Yes transport could be employed by civil and military departments and in bulled from in time of peace, provided they were periodically inspected by practical men to notice their condition and fitness for

Letima Coknel A Temple man Comma dasg 121st Patchers.

I venture to suggest, with all deference, that if all troops marched as formely from statuon to statuon attention through conveyed by malway, the viole of the transports and and mar round be advantageous by used for a considerable part of the year, and the troops much benefited, as alliaded to in answer No 1.

I e beraut Colonel G T Walker, Committing 1 12ka Foot

5. It seems to use that the question could be much more statisfactory amounted by those who have more practical experience of the present system of weeking the transport—say, for instance, officers of the commissmall department. Transport could be employed in time of peace in various wives by

Colored J S Hand, Commanding Min Reg ment

both errol and multiary, as suggested in the question, and I think also could be left out on time to local tradesson and others, subject to this control and supervision of the transport officer of the district, but if my such plan was adopted, more officers would be required to each drawnon them the number suggested on the names to (a), quostion ?

Louis ant Colord C B Knowles, Commanding 6/th Regunsat My opinion is, that military transport in time of peace might be amployed in my public service, but should not usual the commissanat. That department should be independent

L nin mt-Caland G H Parker, In i Himilande s It might be employed by civil and multiry departments, but not by bullock to un

Major I' Stophen 4th Hattalian R flo he gade

It can in every way

In peace time I would recommend that all descriptions of Govern-

Hayer F S Ferry I Lette Kung's One Borderers

ment unhary transport cheek! he without by the commercent department or requisition to the commission to the commission to the commission to the commission to the commission to the commission to the commission to the department work and believe tunned duty. Their partner of the transport detailed as (a) and (b), regiment of the commission to the commission of the commis

duty. That perion of the transport detailed as (a) and (b), regimental and departmental should be subject to investion, as indice stated, by the directive and aspectance of transport in the quarter master general soffice. I would further recommend that the billock train work should be

confined to those districts in which the communication with the rulwiy traces require opening up for the benefit of the public in general

Moyee Hagle P Pourson 12th Pos It ortandly could not fall the place of the ballock from for the sample reason that when required for war, the transport eather would have to be stated out the has of the very time when, an all publishing an efficient buffeck from would be most needed. If troops are allowed to memberare wavy from contourness to a greater extent than is now permitted, the membrane estiman currege would be well completed.

permitted, the moreanic commin curings would not be well completed.

At other times doubless employment on some public work, would be found for it. He might have the place of hined earlts, to home extent, for the convergence of unitaring maleries at stateous where such work was

required. At Morar it might be very profitably employed in carrying grass from the rikles to contonments

I rah station has its own peculiar wants, and if public carriage were available, work for it would always be found

Mager J D Dysta Laune, Sith Regiment

A nucleus only night be kept up, ittached to regiments, for which profitable work surely might be found, in lieu of being kept idle as that of the move ble column which has come under my notice

Major W H J, Clarke, 72nd H gldauders

The transport could be employed in time of peace by the moveable columns at the different stations by regiments on relief, and most hi ely comming to one uniform sections by regiments of exact, and morph fley in ordina civil and multidary usefuls, but decadedly not in such word's as bulleds trum, &c., for it it impreced to be suddenly required for service, it is bulled-it as a notiful be longed; to a standard to other great more-tenence of Government, as most blekey it would be most ungently required for the purpose of flowarding stores, &c., for the army

Colonel C. R. O. Errans Cota ms d ng Royal Ari Bery Mecrot D 15 m

This is just one of my objections to the introduction of an Indian transport department, costly in time of perce and of doubtful utility in whi

Loretmant Colonel I Ketelsens Royal Artillers

I cannot see how advantageously The work of all departments, eval and military, including bullocktions, morenses on an outbreak of war, and that would not be an

appropriate time to reduce their establishments

Mayor Bert e Hebart R.A. M'h tury Secretar to His Grace the Gorceast of Madres

No doubt work can always be found in the several departments (civil and military) for Government eather Some might be employed by municipalities, &c., where collectors, sub-collectors, and Linopean of lierals reade, but I would not set trust may animals out of the sight of Linopean or logis Nativ. revenue officers. The care of such animals m ght he left to the collectors, &c and some reward authorized to be given unnually to the Native subordinates in immediate charge, if the animals are I ept in good condition

There is viry smale century required in every cautonment, working well, see to be provided for the troops. The public works depute-ment might also be allowed the charge of bullocks and camels within defined limits, beyond which they should not be tall an

Major H C Lowes Command rag I 1 st Royal Artiflery

Imply it in all duties of contonments, civil and mulitary, on daily requisitions Let it out on his by day

Mayor E T Hume Command ang C C Royal Horse Artiflery Megor W. W. Mando I. Com rending D.A. Poyal Horse Artil In many ways, both by departments and as bullock train. There are many ways in which Indian transport might be employed

in peace time, but it council be expected that remunerative work could be found for all to neger trainings The evil of employing military transport in hellock train work is, that during a wir there would probably be a great deal of work to be done by the bulloel train and this would be at the very time that the military transport would have to be withdrawn

hared out under certain conditions

It might be employed by departments for all work required by them. Some of it might be It might be employed locally by both exil and military depart-

ments, but better not for bullock train purposes

inspected, and mobilized

Major T. W. Hazlenge Con-tounding E 3rd Royal Artifles Major the Honble A Stewart Con 1 and 13 1 C Royal Horse

Artillery

I thin when once organized it could cardly be employed in all the ways named. The district transport officer would first of all organize his trinsport with the civil officer, and having receivmed the regular amount of trinsport required for his brigids in the district, he would lave it divided, and apportion it to staff, regiments, and departments through the transport officers and subordinates of each, the general settling in conjunction with civil officers, when it should be mustered.

Major C D Nume Royal Horse Artiflery

In ordinary garrison work and bringing grass for mounted corps
 In corrage of ordinance and other stores from station to station,

or between recently when off the of rillwy

(b) In po tal or other bullock-term work, when time can be spared for such slow transport

It is essential that the transport corps above roughly sketched should be practised during perce time in their currying work

Mujer P FitzG Gallerer, Roral Artillery

For a considerable portion of the currege required this is impossible, but I think that in cases of moveable columns as much of the carringe required as possible should be retually in use in the station on Government work, and not out in the district, often many miles off

Appendix IV 7

(1064)

Major W H Noble, Royal Artillery

It might be used for ordinary station duties, except for that per tion of the army on a war footing, but few Government animals would be required Ordinary transport and movements could be effected by hared cattle.

It is necessary to keep a supply of elephants and ordnance bullocks for stege trams, as such animals could not be provided on an emergency

Captain G C. Bayly, 13-8th Royal Artillers

I think as much transport should be kept up as the various military departments can find work for in time of peace in charge of the commassimate, so that want to means of power an counge of an oun-missimate, so that the futing of carriage in time of power for mixtry pulposes may be excorptional. I think the enings so kept up in time of passes should be used as fire as it will go for the conveyance of begging for teopis on the match, and conveyance of stores shape loads where tallway corrovance is not available. It should not be restricted to particular stations on the mere chance of being wanted there ub le there is an actual demand elsewhere

Jasutsuant E C Waso RA, No 4 Harrin Mountain Battery Punjab Frontier Force

If regimental transport be kept up in the proportion of half the amount required when one serve, as the system on the Purph from the grant system of the Purph from the grant saving might be secured to Government in maling use of this transport for narray leafs, and at places the Rawal Panti for the macement of troops to the bills in the hot weether. A large particular of the macement of the macement of the macement of the macement of the macement of the particular of the macement of the mac tion of the Government truffic on the Grand Trunk Road might also be done by the regimental and general transport at a great saving to Government and meseased efficiency of the transport itself

Colonel O Wilkinson, 2nd Bengal Cayalry

I am not prepared to express an opinion on this point beyond a conjectural one, that the transport might be employed such as bullocks in train or agricultural purposes, and I believe the Germans utilize critic m this way

Colonel Hugh Gough Com-mandant 12th Bengal Cavalry.

Undoubtedly in time of peace it might be utilized in such a way under the superintendence of its own officers, who would be responsible for the due inspection and accuracy of the numbers and registers

The bullock true is a department which should be entirely independent of all other aid either from transport or country carriage

Capta u M G Gerard 2nd Central India Horse.

All in excess of permanent military requirements should be utilized in any way it can be profitably. This would vary ir different districts, being regulated by local conditions, such as existence or absence of

milwys, &c As a rule at could be worked most profitably and cheaply in the carrying tride of grain districts. For instance, commissaring contract's for grain, instead of including delivery in customients, might be made of far chapper rates in the rillages themselves, and thence

Brigadi r General C J Godby, Commanding Pumpab Front er Tores.

This question can best be answered by the commissional department, who have the experience with the moveable column establish ments. It must be remembered that the bellock-time is rapidly disappearing before the extension of rul cads, and not a vehicle or munal could have been spared from the bulleck train during the late war in consequence of the enormous increase of work that was thrown upon

Lacutement-Colonel C La Touche,

How for it could be employed could be ascertained after the details of

Commission Poor. Heres

to generate many the secret.

Commission Poor. Heres

to generate and strength had been decaded upon. In the meastern at appears to me that it could be united for the famingor transgements commoded with the annual relates and for all purposes for which the could be united for the famingor transgements attends are now used, also for branging in grass from the various Government kearsone converged with the annual relates and for all purposes for which the could be for branging in grass from the various Government was very worked by the head quarties of regiments. I thank it Government would made magnetic they usuall find that in the contracts made for green large sums are considered to the contracts and comment of the contracts and contracts and comment of the contracts and contracts and contracts and contracts and contracts and contracts and contracts and contracts and contracts and contracts and contracts and contracts and contracts and contracts and contracts and contracts and contracts and contracts and contracts and c annually paid for cutting and carting in, which go to swell the profile of the contractors, and cross on unnecessary expenditure of public meany. Such expenditure could carry be reduced by ut linear the vergoes and exist of the criticalors, and cross or multicarry purposes. Beganding the Government fees out, I wish to make one more reserved.

imported by transport train

They are now sold every year at small sums of money to contractors who retail the grass to the silled a cavely come and every year as sum sums on many to contract extendily to pry for in the shape of compensation for dearness of forego. If a transport corps was left up as recommended, there would be no necessity for the s sternine. Government would refur the pumpal learns the breaks: would have the grass cut by the camp followers of the transport establish ment, and, after providing for all its own write, would dispose of the sale of the surplus,—thus saving a very large sum of money

Lettennh-Colored J H P les, to a moderate extent, having care dways that it is only sufficient work to keep men and anunals in taneing and not to exhaust their standards. strength

Major A P Palmer, 9th Ben

The enrolled carnage (sade question 13) could be employed to the extent that moveable column currings is used at present, and the regis tered bagange animals of India (tade question 19) would in ordinary times be employed in their usual pence at certains. Bullocks employed on bullock trun serves could not be counted on as available for other work in time of war

Colonel J Boron Command ang 27th Punjab Native Jufantry Colonel H S Obbard Com mandant 41st Bengal Infantry I can see no objection to its being so employed

The transport it is necessary to I cop up in time of peace is mostly occupied with the march of troops in rebel, enringe of Government stores, station work of various kinds cholera camps, &c It would not pay to keep it up for use by departments, civil or inhitery

Colonel E Dandridge, Com mandang 40th Native Infantry

Native Infantry

Colonel G W Fraser, 39th

Fide answer 7

could commund such a demand. The

I see no teason why it should not be employed in my or all of the departments numed. It should be, as far as possible, so utilized as to be self supporting, but it should not be employed beyond such

Leantenant Colonel H. Worsley, Communicing 7th Native In funtre

distances from where it is kept up as to prevent its ready re-collection wherever it may be required Regimental transport can certainly be employed in time of peace, provided at be of such a preture as to provoke demand I should suggest the employment of pack pomes for port, as nonies

Antine, would

consideration and some a mediation.

The animals would be course themselves of these pomes for purvice are, in return propaga for their feety, and being held repossible for their condition. The animals would be course be missiated mostlably and all precentions tyle in to prevent above. of the privilege. Other resultats in cantonments might also be permitted to male use of regimental points in similar terms. Besides minuals so let out, a regiment always requires a few for regimental points on animal censor. Detected numers to revent, i requires a case a required 5 to by intergenential purposes, such as certificial of guards' bedding, conservancy events. Another a sy of comploying carriage in peece is by instaling on momentaties and conformation employing only Government carriage. These animals when required by the multilary can always be readily replaced from local n-contest.

Leutemant Colonel R. J Wilken Commandant 17th Native Infantry

Yes I think the experiment might be tried of employing trusport in the bulleck train and in the work of the station I think many officers would be glyd also to here the trusport bullecks for their guiden wells, &c , prying for the feed of the bullocks and driver

Lacutemat-Colonel R G Rogers 20th Pumph Native In faniry

On the north west frontier and trans-Jhelum at never could be The strum on departments (especially the bulled train) is severest during war-the very time when it (the trunsport) would have to be withdrawn for mulitary purposes

Lieutenant Colonel F B No. man Commanding 2 ith Punjab Native I fantry

It could only be used to a limited extent—chiefly I should say by the public works deputiment. I do not think that it could be used to any extent for such work as a bullock-trum. In the Panjab, for instance, extens for Section 200 Section

Limit to resistant: She gentre private at our invasors in our reages would very, so eliment win make, and these could not convened you run run of the prolages star by ballock-into. The ballock-itan is a most sestell agency for vasting in the guest lamply of an army in time of very, and the substitution for it of currency, which would be repeated for regimental and departmental trans-port in time of very, would, I fluid, be imposited. I think, however, this, as a take, all dovernments stores should, as for its practicable, be curried by I think, however, this, as a take, all dovernments stores should, as for its practicable, be curried by

the transport animals

Lecutemani-Colonel H St. G Tucker 41st Nat to Infantry, late Superintendent Trusquit Trans 41st Native Infantry

In time of perce it would be very unnecessary to keep up any great amount of crange as everything necessary could be carried by the rul-At such stations where there is no redway, such as in Bundelcond or in some parts of the Punjab, the carriage could be I ept up and tend of in some part and it are ranging, are entained to the plot in any seed by any department requiring it, on sending a proper requisition for the entrings, which should be "unctioned by the officer communiting the station, unless there was any likelihood of the carriage being required for multiary purposes

Major Sir B P Brombead, 40th Astree Infantry

No, certainly not As I have said above, I would have no estabhabment in time of peace It would be a needless expense

Mayor A C W Crooksismi, Commandu g 32nd Proneers

It can partially be employed in ordinary station work, particularly in the vicinity of arsenals and railway termini. In the cold weather it

though the employed wholly in the releft. All male carrage should be employed at half without There should be no such timing as a contract mule in Isolas or, if to contract for fiction is charge that purches, they should be general service annuals, and for the time being Government property. I don't thank there could be not of an infiling. amman, ten for the time come covernment property. I now a time, there cann be worten in source, time, as there is no need for preferency or keeping up eart belieds, a neek toward all over India, but in statues like Umbulla, Pindi, Bareelli, Lakeer, all stores to the out-statues in the hills should be conveyed by convoys of Government cettle, under charge of officers detailed from regiments—a system

which would give practice to officers. The group of hill stations near Simla could profitably employ a large number of camels and mules in the convoying of stores now carried by a civil department Major F P Rowcreft 4th

Gotzki as.

I il ink Indian transport in time of peace could be utilized to a certain extent for the bullock-train both by departments evil and military

Colonel H Bossnagon, Com manding 4th Sikhs

Yes, certainly, as is done with camels and mules in this force, to the benefit of Government pecuniarily and of those kept in regular employment

Lecutenant-Colonel J J Bos well Commanding 2nd Sekha Lerntegant-Colonel

Bambrulge, 4th Sakhs

It ought certainly to be employed by departments, ordaines, commissaint, &c , also by private parties, so long as it is not taken beyond a limited distance from head-quarters

F T

I should say in venous ways, and profitably Contonness on always employ a quantity of animals,—guards, commands, commensative, fetching in stores, department public works, &c , it could be hired out by the civil for tinding purposes, points and mules could be used on the mail eart lines, wagons, carts, and bulled a could be utilized on many roads as a bullock-fram, where there is much traffic and trade, and with profit

Colonel W A Gib, Command ant 25th Madris Native Infantry

I do not myself see how the Indian transport could be used to any extent profitably in time of peace. If the animals were let out for hire, they would probably be illused. Railways have nearly done away with bullock-trains, and even if they were not, to suddenly remove the bullocktrun to go on service would throw the traffic of the country completely out of gent, probably to the detrument of the Government, for if the bullock town was necessary in peace, it would probably also be required if a war broke out.

Colonel S Edwardes, Com anding 2nd Bombay Native Infentry

If a transport team were properly organized, there would be no necessity for the commissionat to hire carriage in peace time for the transit of stores All Government stores should be forwarded by rail over long distances. but for short distances by the transport train. All the stores for a division or district might be brought by rail to a convenient spot and distributed by the transport train

Colonel W Bunnerman 4th Bumbay Rifles

 T_0 a certum extent by the commissariat department and in the movement of theore on relief

Colonel H H James Com-munding 10th Bombay Nativa

I should think it might be employed in all these whys, or even let out to the public, under certain lestrictions, at reasonable rates Good and cheap carriage is pretty sure to find employment

Colouel J Furbrother Command og 22ad Bombay Native Infantry

It can be employed in the annual islaefs, convey nee of all military and departmental stores and transport trum, for instance, between this and Vingoria, the port of contribution, where it would be very useful and convenient. In the event of several regiments being turned into pionecis and stationed where the transport was located, where the exigences of the service admit the pioneers might be usefully employed in many ways for the improvement of the place, and the field column carriage utalized

Colonel J I Willes, Com musstry General Bengal.

Rulways cury corything What demand can there be in time of peace for Indian transport? If lent to other departments, it is neglected, and found probably more expensive than hired carriage. For bullocktame-if it is me at by this to supersede that of the postal departmentthe could only be used at great distinces, and would not be available for transport, and again, by the sudden withdrawal, the bullock trans on which the public depended would collapse

Colonel R A Moore, Acting Commissary General Madras

If trains of bullock-carts were lept up at the principal stations, they would do all the carrying work of the contonment

Lieutenant-Colonel M W Willough by Act ng Commissory General Bombay

The transport can be employed in time of perce to a considerable extent at all stations on local transport duties, particularly if there is a proportion of wheeled curringe and should save whatever may be now paid on eart hire, &c , which saying might be tiken is a set off against any increased cost of fixed establishment. Bulloel's from the trunsport might be used by the ordnance in the arsenals and factories, and for transport of the department from arsenals to ratiway stations. It is doubtful whether it would answer to lend the transport to the cruit department, or to employ it on such work as bollock-train, unless for purely military purposes. The organization in the former cras would soon defenderte, and in the latter there would be a very considerable wear and ten of animals

Colonel T H Sibley Deputy Commustary General, Bengal

The transport I propose, consisting of mules and camels, could only he employed in effecting reliefs, carriage of grun, &c., from olean markets, or used as auxiliary bullock or transport train for places beyond which carts cannot travel

Colonel M. J. Brander Offic at ing Deputy Commissiony-General, Calculta As at pressi, mere ting to early out the relef of troop. As no transport is lopin point to the or of the troops, to much emagence, it made he complete meruphations to load soft to early did particular, and it recall not be it handle, for the above and the following reason, to lead transport for builder transport for builder transport for builder transport for builder transport for builder transport for builder transport for builder transport for which the transport of the builder transport for would be required of it.

Colonel J Keer Deputy Com missary General Lower Circle, Bengal See answer to question No 1

Colonel G S Macketa Deputy Commissivity General late in Commissivity description of the Khyber and Kuram Lottes

Subject to the restrictions by the multitry uniformies on the nee of meastable column currage, the commission of entroge has always been doing the part of other deput ment. It has not do so block from word but there is no reason why it should not where it can be properly supervised.

Colonel R. Q. Manustring Deputy Assists it Commestry General, Kamptee. The transport is now in time of perce fully employed. Thus the whole of the as unals bear brought in the forage for the eavily and crillery whilst the attendants out as much as they could. The nucles and bellocks bring in decess clading &c, from Nagoror duly all

and bullecks lying in stores clothing &c, from Negrore duly all favored the year, including the large sup hy of malt input. Of the between these sup not man and b. They see other pulling punkahs in barracks and hospitals on working in the stores or a down other employments, for all of which cooled have would have to be paid at a linetic and labert rate to 3 years old on, but when how cools only

three names ye doesn by employing them.
The looping up of hired critic for detachments of theopy in two and fours is a urcless expense as we can get that number at any time without prying a contractor for keeping them up all the year round.

Ineutonani-Colonel J V Hont, Doputy Ass dant Commissary General Bengal The trusport at present kept up in time of peace is exclusively for more-tile columns and to provide for studen emergencies, and the necessity for keeping it at hand precludes its being utilized.

If it is no contemplates to keep up whittened environe ve a neurofor time of war, it estable be uthired to some extent for import and export of grean and steers and for departmental work. I do not time it could well be used for bulbed time purposes, withit deportment has great presence thrown upon it in war time, and requires to be lept up to its full strength in time of poses.

Major M A Rowlandson Emmas r of Compassuret Accounts, Hombay I behave the present establishment is fully couployed during peace on dutes belonging to garrasons, such as suring sel men, emijing stokes and baggings for detachments, and also on private work, push for by the employers of the animals.

Major W. Luci hardt, Dopaty Assastant Commuseury General, Umballa. The transport now can blobe as made use of for station dashes and in the nebul series in its generally employed by the tonogs. If this transport was considerably increased, it appears to me very doubtful whether constitution made to cook in the found in the constitution made the land to constitut the expenses having to be increased in this recount. I believe moreover that great dismandration on the part of could department and believe three series would be found to complex either hardware and any moment.

Capta n T F Hoblay Deputy Ass stant Commissary General, Umballa In the annual movement of troops this as a rule, occupies all the trumsport now lept up. Whenever it can be used for any Government purpose it is always utilized.

J H B Hallen, Dag General Superintendent of Horse Breeding Operations The nucleus of a irrasport irran as suggested above would be employed in moving trope during 7 or 5 months of the year, and would be useful in allowing the tropes to lever prot loading, embedding suddledail, &c, &c, d ring the rest of the tear.

The rule is and earth model about of source in conformation in de-

The miles and early might also be of service in cantonments in distributing rutions and forege, &e, and bringing commissional stores from the neuest milway stations.

12 Will you be so good us to estimate even roughly the cost of any proposal you may be pleused to make regarding a reorganization of the Indian transport system?

Lembertant Ceneral C T Chrom beriales, OSL into Commanding Ookh D vis on, Hislest Geal, A W Monutier CR, Candig Hij lembal Salest Force

I cannot venture to suggest

The subject of questions 7 and S is very complex, and until the
framework he claborate is there is no data for east

Tile reply to question No 7.

Brigted er General F G Kemp ter Commanding Ceded Dis

Proposed peace establishment 25 per cent of war strength, as follows,

0%S, 1/2	
	Rs
I Tield officer at Rs 800	800
2 Subultonus at Rs 400 x 2	800
2 Non commissioned officers per 100 at Rs 20 x 30	
1 lanner per 100 at Rs 25 x 15	600
1 14ther lief 100 at 118 59 X 19	375
1 Durvey per Sammals for 200 camels at Rs 7 x 83	581
I Driver per S m imals for 1,000 males at Rs 7 x 333	2,331
Keep of 250 camels at Rs 7	1750
Keep of 1 000 mules at Rs 7	
Accepted a tool minutes me has /	7,000
Office establishment	50

Total

14 987

L eutenant-Colonel A Hogg Poputy Quarter Master General Bombay

The cost of the scheme proposed for frameworl of transport in time of peace cannot be strated with accuracy sufficient to make the estimate of any value until the details are worled out, but the cost of my proposal would not exceed that of the present field column, which my proposat woman not execut out or to present hem comman, which is would replace the only now element introduced being thirt of one officer and a few men of Native infinity with each depth, while a night reduction in the number of animals now kept up would take place

Mayor A. A. A. Kruloch Deputy Ass stant Quarter Master General

I have not the smallest after what the plan I propose would cost, and can only record my opin on that from what I have seen almost my system that ensured efficiency would be economical compared with the present "no system," which causes such enormous waste

Lesstenant Colonel I on R. D Kerr, Communing 10th Hussara

I believe that at one time Government lept transport for the army of Bengyl in the North West as part of the standing military establish-ment reference to the reports of that period would give reliable informaation on this point, bearing in mind the present incience in value of giam, fodder, & . &e

Major Hugh P Pearson 12th

This is a question which would tall e much time for consideration and enquiry, and to work out in detail if is time I have not it command The scheme I have roughly sletched would certainly not be costly ere would be the stuff pay of the superintendent and his two

There would be the star may of the supermittedens and has two
sassiants and the pay of the reterminy surgeous to provide, and
there would be the difference between the station and graring rules of line for the more table column
the station and graring rules of line for the more table of the timize would be the difference between the station and guarmy rives of unit to the november offers carriage of all stations to be proved for, as she for thring additioned pay of the jumos guales of the department. But for this outly, we should have a system of tamapert expelle of exquision, the carriage station more charges and the property field and creat for and therefore for more efficient that they now are, their distribution would be in some cases described, employment would be found without extra cost for a certain tumber of officers in or one overstoom approximately, and it small extra cost for deserving soldiers, both Buttels and Matters the traps of more vible columns might be Course on one of the widness, then pitters and America de drops so the tensor contains angul of frequently cases and throughout the winter two of all cost find this great all satisfye might be extended to much larger columns by the oboption of frates delays. Regimental officers and more would be unstructed in the cases and management of transport naturals, a shalf of officers and substitutions tumor instruction. to the nork would be available for instant service with the transport of all departments, and for that

comprised under the heading (b), general. And hastly, the data for modulation expansion would be collisted, and redy for reference was action on the issue of the order for modulation. It must such be forgetten, too, that by the exceton of its new degradation. commissarrit would be greatly lightened, and the officers of that branch of supply he free to give their whole attention to their more legitimate and sufficiently onerous duties

The necessity for some such measure was unbuilty admitted by the basty formation of a transport department under the commissariat at the beginning of the Afghyn campaign

Capta n H M L H sich son 1 14th (Prayer of Wales Own) Regressia.

A regiment 1 000 strong would require about 215 of the 5 cwt earls, which would cost about Rs 130 appec equal to Rs 28,000 or thereabouts, plus hamess for pomes

Colonel C R O Drams Commanding R. A. Morrat Dry ston.

I am not prepried to make my proposal to add without due necessity being shown to the buildens of the State

Colonel Hugh Googl , Command ant 12th Bengal Cavairy

There should be no great extra expense beyond that now caused by moverable columns. Beyond the pay of a ducetor of transport for an arm; corps or province, and the few subordante of cers belonging to the department, these would be no extra expense beyond flat now meutred m the pryment of chowdres and other subordinates by the commissariat

for moverble columns Prolably the staff and establishment of a director and supermtendents per army-corps would be about Rs 5,000 a month

Capta n M G Gerard 2nd Central India Horse

Very rough estimates of a division on peace and war footing given below but without following data it is impossible to estimate how many divisions are required -

(1) Number of commissurat cattle now employed for ordinary peace requirements, meluding reliefs

4 ,00

(3) Wi other any system of regimental transport is to be adopted.
(5) Wird serie of camp campage and followers will be adopted, and whether labors will be dimunished by the u.e of escolets.

(4) Whether compressed provisions will be utilized Petimote of division transport from an agge feeting -

Per menton Rs
400
2a0
100
1,800
1,400
600
390
100

The value of the present commissional cattle should go for towards purchasing more suitable

animals but I have no reliable information as to the neversity cost of carts.

A certs a portion of this monthly expenditure would be recovered directly or indirectly by its employment in peace for transport of stores &c

rol men r	T East for cumpling of socies and	
2 Esta	nate of division transport train on mor footing —	
		Rs
1	Commandant staff	400
4	Subalte n stuff	699
	War officers	1 909
	5th elass	500
	Syees	4 200
	Nulbunds artificers &co	360
4 000 800	Seers grain per diem from 1 to 3 seers each At 20 seers == 1 rupee Mules and pomes hired at Rs 4 to Rs 8 per measure, including	6,000
	715Å5 &C	5 000
	Repar of carts, &c , wear and tear	1,000
	Sandries	640
	Total	20 000
	If across frontier, svees' rat one extra	2 200
The Calle	wing expenditure would also be required in putting division on war fo	
THE TORIO	will exhenueure mount upo be tedanted in hereing excepting way to	Re
500	Mules, &c purchased	80,000
500	Chatt.es	2 000
	Clothing for syees, &e	\$ 500
	Value of earts humess, and equipments for store say	50,000
		55 000
	0 1.1 1.1 1.7 00 000 1	
	Six months' expenditi re, at Rs 20 000 as above	1,20,000
		2 05 000
	Or reducing probably value of war foots g material remaining	50,000
	Total cost for six months	1,30 000

I e count Colorei C La Touche Commandant I com Hor c.

The cost of the estable ment proposed by me for complete arrange ments for regume this value of the many proposed by me to temples are regume that value this many of the temples are the or and men would be regall aged ing for right soft supers a per, but against the selection estated we all it was been put the ritten of the entire expenses of the commitment entrange of the existing system which I

believe if the establishments are taken into consideration are elements and what Government would save by ut! ug the transport in the time of hence for the cutting and carting an of the grass for the Brish mounted bunches and such other metsu es of a similar na ure as a becaucit experi ence might prove fersil le

L'enfensai C'honel J H P Mal lunson Commanda, Jui S mi

It must be remembered that I have only suggested the framework of true port for a case dry regiment. The rough est mate would be-18 males for everage of some spare ammunition of, and treasure to keep up with, regiment at Rs 80 each

Terst outlay	Rs 1 440
6 Mulctoers et Rs 7 18 Regumental camelinen at Rs 7 4 Muscrdums at Rs 15 1 Netwer sussitant at Rs 30 1 Regumental European officer with staff pay at Rs 100	49 84 60 30 100
Monthly pay Feeding 18 mules at Rs 17 each	316 216
Monthly expenditure 12 allowance	532 20
Total	552

Major A P Palmer 9th Bengul Cavalry

The staff and establishment of a director and superintendents would be Rs 5 000 per measure I do not that that the present expend ture on moveable columns would be exceeded by the reo granzation proposed

Colonel H S Obbard Command aut 41st Nat e Infantey

Roughly, it would be that of the commissanat currage department as it new stands Staff salvry for superintendents might be provided for by reduction of staff allowance of the higher officers of the comm squat depart-

Colonel II, Das dridge Command ing 40th Native Infantry

ment Fide answer No 7

L entenant-Colonel Norman Commanding 24th Punjab Natave Infantry

I have only made proposals as to the superusion of the transport system

- (a) The officer charged with the superintendence of the trusport of a division of the army to receive his departmental pay (b) The subalterns under h m Rs 150 staff pry in addition to
 - pay of rank and half staff pay of any permanent staff ap pointment tl ey may hold
 - (c) Duropean suggests the pay of sergeants in the commissariat departments with pony allowance.
 (d) Native non commissioned officers Rs 5 and 3 as staff pay

Lacutement Colonel H. St G Tucker 41st Nati e Infantry late Super etende t, Transport Trans 41st Nat e Infantry

In peace, one d rector on Rs 800 staff pay with the staff corps pay of has rank one personal assistant on Rs 500 st ff pay with the staff corps pay of his rank and Rs 150 a month office allowance Four superintendents on Rs 400 a month staff pay with the staff corps pay of their runk and Rs 100 a month office allowance. Four assistant superintendents on Rs 150 a month staff jay with the staff corps pay of their rank

In time of war there would be more assistant superintendents on the sime pay and European and Native non commissioned officers and men who should get—non commissioned officers Rs 30 a month in addition to then pay and free rut ons men Rs 12 a month extra pry and free retions or compensat on in hear thereof. The number of assistant superintendents, non commissioned officers and men cannot be deter mu ed, or my positive rules laid down about them, fall it is known what sort of wer it is to be

Morer Sir B P Brombead, 40th Not we Infantry

I do not advocate the maintenance of any establishment in time of peace On the contrary I would do away with the ex sting move able columns. It is obvious that an enormous saying would be annually effected thereby In time of war whatever the bill it must be paid But thansport service constituted, organized, would and paid on the system detailed by me in the accompanying memoriadum would Ibehere, be thoroughly economical and thoroughly effects

Major A. C W Crookstank htmasandus, 32ud P o cers

I propose no new system as I think that true economy lies in the utilization of our present agencies in I recourses (if possible am pl lying them) and not in the ereution of others

I propose to utilize the commissairst framework and mentum under its charge a certain amount of local transport to do local multary verk and be a a lable at any time

The expense hes in the provision of the carriage and to raive at the proportion we can afford to maintain I would take-

- (i) the cost of all carriage locally hined
- (i) the cost of the moverble column carrage
- the cost of carriage kept up by front er regiments the cost of the present Government carriage (m)
- the cost of carrige hard for rehef pu poses
- the cost of carriage of military stores which could be curred by Government catile (vi)

Add it together, and then munism entrops to the extent of alent 50 per cent of that sum to be distributed to datums, returning the other 30 per cent for contingeness and a possible curre. The correge has maintained would make a very respect the maches for a transport department in time of wir

Major P P Rowcroft 4th

With reference to questions 12 to 18, on the subject of two part, I have not had eatherest every sence in Jacken transport to pronounce in deceded opinion, I al I am of up now that in war time each regiment sho ids have its transport brushed one to at both it theregament to be a youn the for it One officer in each regiment, should be specially 10d off to look, after the

Interroper trottee one to see on a compared to detrive the transport. Under the strangent to the compared to the transport to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the compared to the contract transport to the compared to the contract transport to the contract transport to the contract transport to the compared to the contract transport transport to the compared to the compared transport trans

Lecatement-Colosel 7 J Boswell, Communiting 2 d < that

The following is a very crude estimate. The evening that would be made by Government in the event of war with trunce officers men, and establishments would be very great, and compensate for the heavy outlay—

							Per men er	7
One supern	rtendent of tr	rmsport, B	s 600, m	ndditaon t	o statt		R.	
corps pay	6.547						1,424	
Tuent tr	moport office	1°, 00° 7	oth caelo i	Native regu	nent in			
Punsab s	tafi, Rs 150			~			5 000	
	d raspectors	(sepone) at	Rs 5				500	
	0 cumels per			Spers, at 9	0 seers	Re		
per rupee		,				600		
	Dermels (} a	t orman) of	S poors of	£ manuade		250		
Parling 10	I mules gran	n 9 energe	neh at 90	SUST.		300		
Phase Co	eers, each at !	9 monnde	nay ne ro	ecces.		22.		
Daniel, a s	amelmen at 1	D~ O				400		
						261		
	muleteers at				•	50		
Repair of g	eat, say	**				90		
					_	A #20		
						2,589		
					-			
And for 29	regiments	• •	**				51,780	
							-	
Grand total	per mensem	111		***			56,704	
	-							

Government would thus have ready, available for namediate service, 4,000 camels and 2,000 mules, with truned officers and establishments

I have not included clothing of establishments, as the amounts realized from private individuals in part would amply cover this item

Colonel W. L. Gib. Contranslant 2ath Madres Vaine Infattrs This is impossible. It would fill me weeks to obtain measure data. In fact, the time grean for the preparation of these papers, which makes much thought and onested than in much too hanted. Any suggestion in the reorganisation of the Indrin transport system must suggest great creases. The rich that it can be done more commently at Ju midway, affects on

Colonel S. Edwardes Commanding 2nd Ecualry Native Infantry

The time at my disperal being very limited, I cm unable to render one a rough estimate of the cortof the proposal here set forth. I have given only the general lines of a yet no feet the formation of a trapper trum and one which, I thind, will be us economical as efficiency will negative.

Colonel T I Willes Commissary General, Bengal, I cannot frame my estimate. If decided on a framework being formed, a committee of practical and experienced officers could alone work out in estimate.

Calend R A. Moore Acting Comm stry General Malinas. A true of bullock-carts of 100 carts would cost Rs 1,801 per mersem.

It will be observed that, with the exception of advocating the employment of speral officers to supervise the transport, and who should

Lan terror Colonel M W Wiles 1 by Art ng Commissary General Banday

be allowed staff pay as follows—
semon officers in charge of a rare—at league coatres
regimental officer—in charge of transport which it to regiment of the re

nonte in peace time ", 100 stall pre) per mine m, subulters chouse doing duty it crutics ". If set it pay per mine m, and the employment of meyne or or practices in larger numbers and on the pay per mine m, furth for exceptions) drawn in this presidency, and a for clerks, one for each large certes, the arming and

clothing the est-blishments and the proposal that some drug; t bullocks should be kept up as part of the transport the suggestatons mode by me will not anywhe sany additional cost to Government and I regret that the time at my disposal and the want of data on which to calculate will not allow of my making oven a rough estimate of these extra expenses

Colonel T H Shey Deputy Comm stary General Bengal I estimate the cost of maintaining a transport from of 10 000 animals at an average of Rs S per animal per measure or with pay of officers about on Takin per month—a sun which I believe s less than what we now pay for hired transport and it et to make transport.

Colonel M. J. Brander Offenst ng Deputy Comm ssary General Calcuita My proposal for the formation of a skeleton transport corps avolves sepand turn et all in it me of petce except the salary of the chair or hexa, of harmy 2 for 600 th. Owner, count for the command of a month-and the staff allowance of office a sud men when employed at camps of excepts. For time of war the follows:

The scale of striff pay proposed is -Rs S merintendent 300 P ymaste and accountant ann Ass stant à ite 150 Non commiss oned officer 90 Private 15 Vete mary surgeon—pay of his rank say 300 Parmer Native 80 I submit the following rough estimate of say for 10 000 camels 1 000 mules 1 000 pack bulloeks 500 earts -Ca els 1 supe intendent for every 5 000 camels at Rs 300 1 paymenter for every 5 000 camels at Rs 300 600 600 1 assistant super intendent for every 1 000 at Rs 150 1500 1 sub assistant up dt (non commissioned officer) for every 500 et Rs 30 600 1 pr vate transport train per 100 at Rs 15

Hired temporarily { 1 Native (ermel) duffidar per 50 cam is at Rs 15 1 500 800 600 1 vets parv surgeon for every 5 000 camels at Rs 300 1 Native veterinary singeon or saloots a for every 1 000 camels at Rs 30 150 5 8.0 Total Mules 1 ass stant superintendent 1.40

300 1 psymaster 60 1 sub ass stant a pernatendent (non comm as oned officer) for 500 at Rs 30 I 1 wate trusport true per 100 mul s at Rs 15

I Nat ve duffadu pe 50 mules at Rs 15

Hired tempo unity 1 fa i er for every 200 m les at Rs 15 150 300 70 1 salootrie for every 200 mules at Rs 30 60 1 095 Total Pack-b Blocks 1 145 As for mules Carle 150 resistant superintendent 1 sub ass stant superintendent for every 100 carts at Rs 30 150 I private transport train for every of earts at Rs lo 100

1 private transport trum for every of earts at Rs lo 1.00
Total 4.00
Grand total of cost of transport trum establ shment for the above 8.640

Permactors and vote may surgoons would be located as required. It will be seen that I lare substituted provides of their unsport in a for generalize of cancels and make as these men. Hentone better discipline. A regards elects these should be unnegen on common sour discover and practizes of the transport dept intent and nitsolved to the ratio is officers as found necessary. A large still of these men would be required on a company to prepare rolls actures pay and entertainment certificates family near those rolls. So

Colonel J I ee D puty Com missary General Lower Carele, Pengal

I regret the time given me is so short and my dities as deputly commissively general and dies in charge of the comin saving sensible of sea while as the present in charge of the time prime diesely concerned as a sound as a sensible so diesely concerned the sea oneroe is that I am unable to do more than and a surgest our in the rough but it will be seen from a cost derive of I can it is the less entire. They are tery common of I day it is that the country and the expression of my in the less given range, types is the country and the expression of my in the less given range.

cate and gent has been roused. The officers be jg communication of the option option of the option option of the option o

160

Colonel G S Macbean Deputy Commissary General late in Com-m sear at charge of the Lityber and

I have said a wagon would cost bulf what an elephant does, and do much more worl I meant about Rs 37 a month, agransi camels at 5 maunds each, 4 at Rs 8 cach = Rs 32, but camels will not now be so easily procurable. I would not do away with elephonts. They are splendid earnage and it times they can do work when no other curriage can, and they could only be got rad of at an enormous loss, but they are a luxury in the way of transport

L'enternat Colonel J V Hunt, Deputy Ass staut Commissary General Bengal

See replies to questions 7 and 8

Major W Luckbardi, Deputy Assistant Commissary General, The system I have sketched in my above replies would create very little additional expense in peace time since expenditure would be U shells

regiment sufficient part of the permanent transport officers, and to expenses
mearried by officers and men in journing the training school* and returning to their regiments. A rough
estimate of the cost of the department in wer time, hered on a certain strength of a field force is

subjoined -Scale of corresponded establishment required for a field force, consisting of the troops below

01 O

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Scale of curriage and establishment rec	pured to	or a new torce, consisting of the troops	perow
umerated — One Bratish envolvy regament	- 1	Two batteries royal artillery	
Tuo Native ditto	}	Two mountain trun batteries	
Two British infinitry regiments	1	Four companies sappers and miners	
Four Nature ditto	[
	of one	British cavalry regiment and two Native of	avulry
giments —		Transport establishment per regiment	
One British cavalry peginent		• • •	Re
Requirements		One regimental officer as as istant trans-	
•	Camels	one pay havilder at Rs 100 per mensem One pay havilder at Rs 10 per mensem	100 10
Camp equipage	90	One sowar as writer at Rs 5 per measure	10 5
Enggage	62 40	One non commissioned officer as chowdry	٠
Tood for fourteen days for Europeans Native (fol-	4.0	nt Rs 10 per mencem	10
lowers 800)	65	Two sowars as do at Rs 5 per measem	10
Grain for horses for fourteen days	154		
Ammunition	22		185
Cooking utensils	0	Cost for two regiments	270
Commissariat bakery, butchery, &c	20	Come to the regulation	
	459	Nore-The senior officer of the three as	ustant
Spare at 5 per cent	23	transport officers to be the season tra	изрог (
-		officer of the brigade	
	481	1st INFANTRY BRIGADD	
	_	One Peropean regiment infants	
		Two Native regiments ,,	
Transport establishme it		One battery royal artillery	
	Rs	Two companies sappers and numers	
ne regimental officer in charge of regi-		One mountain battery One field hospital	
mental trunsport as assistant trunsport	100	ONE EUROPIAN INFANTRY REGIMENT	
officer at Rs 100 per mensem ne European non commissioned officer as	100	Requiressents	
pay serge int at Rs. to per measem	15		Camels
ne private as a riter at Rs 10 per mensem	10	Camp equipage Baggage	140 115
vo Native non communicationed officers and		Ammunition	105
two sepsys as chowdries in charge of 100 cancis-		Cooking utensils	8
Non commissioned officers at Rs 10	20	Latienching tools	2
Sepoys at Rs 5	10	Lourteen days' food for Europeans Ditto Native (250 followers)	72 20
		Commissariat bakery and butchery, &c .	20
	155	002200 0000 000000000000000000000000000	
	-		488
		Spare at 5 per cent	23
Two Native osvalel regiments			611
Requiremes to		Transport establishment	011
sequenta to	Camels		Rs
amp equipage	21	One regimental officer as assistant trans- port officer at Rs 100 per measure	100
immuniton .	441	One European non commissioned officer as	ממג
ood for fourteen days	77	pry sergeant at Rs 15 per mensem	15
ood for followers for fourteen days at 500		One pro ste as writer at Rs 10 per mensem	10
followers per regiment frum for horses for fourteen days	137	Two Native non-commissioned officers as	
has at a bea cour	30S 27	chowdries at Rs 10 per mensem Three sepays at Rs 5 per mensem	20
		rutter schole it m: a lat mendig	15

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Tippotitus 11 3 (1019	Appendix	IV]	(1074
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Two Native infantes regerences		ONE ITELD HOSP TAL
Req eme to		Res encts
Comp equipage Bagg ge Amm n t on Dut enel g tools Tourteen days 1 ro us ons for sepoys followers	Cam s 50 10 10 12 1	Total requirements for c mp eq page med canes baggage and fourtee days prov on for followers atta hed for the for one bette y of roy!
850 per reg ment	6) hesp tal 382 - Tra port establit no t
Spare at 5 per cent	491	One t ansport officer at Rs 150 150 One European non comm se oned officer as
Ta spotestablish eutperrege:	t Rs	cho vd es at Rs 10 each 20 Two sepoys as dutto at Rs 5 cach 10
One reg mental officer as a stant trun port off cer at Rs 100 pc mensem One pay b bla t Rs 10 pcr mensem One sepoy as ther at 5 pcr mensem One Nat e non comm oned officer cbo dry t 10 pcr me sem	100 10 8	20, 2 m INFANTRY BRIGADE consultated as the
Two sopojs is do nt R. a pe men em	10	lst infant y brigade Na
	145	Cost of transport establ shment 205
Cost for two regiments	290	fo rice days reserve of prove e one
ONE BATTEFY HO AL ARTICLES!		For provisions Camels 1 156
Req e e ts	Camels	Camp equip ge &c for establ shment 50 Spare at 3 per cent 60
Camp equ page Baograge Cooking tensils Fourteen days pro sons fo Europeans Natives	37 21 2 14 18	1266
grun for horses	45	Two my segregats at Rs 1 30
Spare at 5 per cent	137	Two wr ters at Rs 10 each Six N t a non commissioned office s as chowdre each Rs 10 each Seven sepoy as ditte at Rs 5 each 445
Two companies suppers and mintes		
Regrure e la	Com la	Head q arter staff of transport Re
Camp equipage Beggage Animun t on Fourteen days' provisions Fourte n days' provisions for followers (60)	18 10 12 21 10	One dree or of t ansport it Rs 400 (per manently rapontel officer) One p y se ge at it Rs 10 Two writes at Rs 10 435
Spare at o per cent	71 4 75	Bas s of line of operations collecting suffi e ent transport and to send on 1 y convoys a further supply of one me this provides supply of one me the supply of one me the provides
Ove mountain battery		Detabl sk ent
Regr cannts C mp eq page B ggregs B ggregs Too te n 1 s provis one Too te n 1 s provis facts lowers (128) Grn n for 1 o m the for fourteen days Stare at 5 per cent	Camels 6 4 10 11 20 60 3 63	One d rector of transport (permanently pro ted officer) at R 100 re measure 400 reviews a consider a reason of the rector of the

RESERVE

Coat of transport establishment for above number caracle

Cavalry brigade Lind infantry brigade Second "Commissant reserve line of	Can els 1 077 1,483 1 383 5,000	Creatry brigade I and infratry brigade Second " Commissional reserve and transport staff Line of operations	425 055 655 890 1,050
	8.813		1.475

(1075)

At say Rs 10 here per camel per month Rs 1,00,870

Capta a T P Hobbay Depair Ass stant Commessary General Aandahar

The merease of cost would entirely depend on the number of number to be kept up By consulting the cost of the moved le column now kept up, an approximate scale of cost for any required numbers could he fixed upon

J H B Hallen F q Cemeral Super to dest of House Breed #

I regret I have not the mouns of making out such an estimate but I feel assured that with cueful management and supervision the nucleus of a transport trum on the lines above motiented would prove most economical in the long run, and would be a guarantee for the easy development of any renount of any personnel required for army transport work in time of war

Moreover, the money exved by not requiring lured transport on reliefs &e, would in a great measure, counterbalance the cost of the nucleus, also, I would be greatures on to add that the hardships often entailed on agriculturists and others in pressing their carts and bullocks during periods of ordinary reliefs would no longer exist

18 It is very desnable that regimental officers all over India should qualify for employment in the transport service in time of war, can you suggest how they should be taught their duties 2

Loutenant General C T Chan berlan CSL late Communed ng Gudla Breatern I I are answered this question in my reply to question 8

A book shot ld be written upon trinsport duties, and every officer should be rejusted to Leep a copy

When the regiment is inspected, the general officer should ascerting by communican what they knew individually

Bonds of extremention should be held, and candilates who possess competent I nowledge should be gravited, the same as for musicity, languages, feld telegraphy, and so on It should be meluded as one of the tests qualifying for staff employ

Livery year one or more officers al ould go the ough a practical course of this duty, and, if found sufficient, be registered for transport come

I enfenant General W Hughe or Louiseauls g Schund D vin co.

The regimental organization I propose would give every facility for embling officers and non commissioned officers to qualify themselves for transport duties

I enterent General J Forker Command n. Misse Davis on.

They might be taught their duties at centres of instruction, eq. at Poons and Mhon, un he competent offic as There should be a directer of transport with each corps darmee, and assistants with smaller bodies

Major Real & W Mac at re CE County Hademied Subs 1 area. Magor General R. O For 14 cm. Commun lu_m Meerut Di 1800a By practical experience in camp of exercise or on the line of march By sending every candidate for the stuff corps to surve for a certain

Mayor General H. R Browne, Command og Sunger D street

time with the transport I have proposed I then that if regimental commanding offers would place their transport, when menching in relief during the cold weither, under special charge of one or two of their officers and require them to attend to the details of its 'distribution assembling matching, loading and

uniording," a great deal of very weeful training and requisitance with transport would be guized

The numes of officers so employed during marches, with some information as to the qualities they have shown, might be returned at the conclusion of a murch. These officers would form a sort of re-cree for the purpose indicated and they might be assisted by selected non commissioned officers with the sune object

Major Control J W Schne for CR Commanding Northern Di : 5002 Bombay Army

They might be attrohed for a time to the commissionst department or to a temporal trum, if such should not be placed under the direct control of the former

(1076)

Engadier General G Burrous, Quarter Moster General, Bombay

I do not see how officers can obtain much practical I nowledge of duties connected with transport unless a small train is lept up in cook command, and this, in my opinion, even if we had officers available for it, which we have not, would be a needless expense

Prigadier General F G Kemp ster, Commanding Ceded Districts

By having the animals of moreable columns attached to regiments in peace time in charge of a named officer under transport supervision

Brigal to General T J Murray,

Crimps of exercise are the only schools for practical instruction on what may be called a war scale. I however do not consider that may very speed training is necessary to make an officer who understands the lunguage and of sufficient Indian experience in efficient transport What is most required is a complete "field transport manual" officer

adapted for India In the late campaign the want of any regular or approved system was grievously felt, and it was only after very dearly bought experience that matters improved Moreover, very young and merperienced officers, with little or no knowledge of the language, were too frequently cm-

ployed on duties for which they were quite unfitted

In future I strongly recommend the employment of Native and noncommissioned officers on the transport service

Colonel J A Tytler on t.c., Communeding 4th Georghan

I do not see why a certain number of young officers from both British and Native regiments should not be attached to division and distinct head-quanters to learn their duties as transport officers, and after passing the necessary examination, to rejoin their regiments until such time as their services should be required

Attuch the officers selected to the commissuret dependment for a

Colonel J Maclanuld Secretary to Govern ment of Bombay Mil tary Department

certain time, and lot them also go through a course in the vetericary school See reply to clauses (a), (b), and (c) of question 7

Colonel A. H. Murray, Deputy Adjutant-General R & m India Colonel D Standen Ass strat Adjutant General British Burms

Davisson.

If a concree handbook of instructions relative to transport duties in tune of war were published by authority, officers might be directed to attain the requisite knowledge of these duties, and a report as to their respective attriuments in this respect might be made in the confidential

report on the unual inspections of regiments graned by officers at stations where moverable columns are kept up and exercised

Licatement-Colonel A C T Hogg op ty Quarter Muster-General Dep ty Boundary

Officers might be attached for a course of instruction to the depôts above proposed. They would thus learn some important part of their

J extensant Colonel II A J title Officesting Deputy Assistant Quar-ter Master General.

If appointments in the commissional department are limited to five years on the same system as those to the general staff, many others would gain experience in that department which would to a great extent qualify them for ir insport work, supposing their time in the com-missariat department is not devoted to office work almost exclusively as at present. For the rest, I think an officer who is a good rigimental officer, possesses energy and common sense, with a knowledge of the language and character of the Natives, and furnished with printed instructions as to the briots of the transport annuals, such as that camels will not graze at night, and that therefore murches must be timed accordingly, &c , will, with an active and practical supermittedent at the head of the department, assisted by a few experienced assistant superintendents, be very quickly, without previous training, qualified to act as a transport

Major A A. A Kinloch Deputy Assistant Quarter Master General

As will be seen above, the very essence of the system I propose is that regimental transport shall be purely regimental, and that every officer and man shall have opportunities of learning and practising all duties connected with transport I would suggest that this subject should be taught and studied at,

L entenant-Colonel R. Blundell,

say, two (transport) schools-one for Bengul, and one for Bombay and Midris, and that regulations on the subject should be published

I externat-Colonel R S Clo-jand 901 Lancers.

We lyre so few officers, I do not see how any could be spared

Loretenant Colonel Lord R D Kerr Communding 10th Hussers

One officer per regiment should be attached to the transport department to learn all perfeculars connected with that branch which are mees sary to qualify him to undertalle the superintendence of regiment it transport. The department itself would, when established, so in require the prictical knowledge of their business, and would be officered by men of experience in the transport of past campaigns. To avoid incessant change from one hand to mother, as is the case with ofliours holding

nightances and regimental instruction-type, the office in regiments should be a permanent staff office, his third of minimature or quantermoster, open to intelligent non-communated officers. I should not advocate the writistizers of charge additional officers from regimental troop date, the number of shallent mofficers in easily having stready been reduced to a

Locatesant Calonel J C Lo Quesno 12th Royal Laucers In England, commencing the vevr 1871 and on, during the autumn manetures the sublitant officers of my regument were instructed under my direction by the riding master. Those employed acquitted themselves most carefulably.

Maper J W Chaples Sth Hussare

Classes maghi be formed at large estimat and also at camps of camps of many and an artist and continuing serial information on this subject and can induce for one joi much in the timepert service in time of war might also be obliged to obtain a certificate of educacies before being appointed.

Matter E A. Wood, 16th Hussars

In regiments of British civalry there are but few occasions on which an officer could be spread for a sufficiently long time to become conjunit of with these dates. I famely that cales of a runt officer to perfectly electron from the rules of both evalry and infantry of British regiments mainly to well with advantage of this purpose.

Captum J & S. Mackenne, 9th Lancers I was of quantum that it would be a difficult metter to estitute a school of materious for this insuche of the servers, so finders could not be tangly practically without has may a large transport and apportunities to work it in time of perce! I would suggest a manual for divisional and regimental transports be drawn up, similar to the one resued by the Herse Gunde for regimental transport. This now could have to melable the carriage obtaining in India, as the English one only deals with horses and earlies.

Colonel J A. Ruddell 1 2-th Regument

Officers should be attached to the transport department to quality, and a book of regulations should be published for information and guidance

Should a divisional immaport evidre be established, officers from regi-

Lentenant-Colonel T Bowland Commanding 1 5th Fusikers Lie te unit-Colonel M Vincilie ser I 18th Cibe Read Inshi

ments might be situable and undergon course of matraction in the surrogeness of numeric, even of opens at 8,60. Some non commissioned officers and men should the be trunch.

By stricking a regimental officer to the commissant during the nuclei asset, to harm the system of monoring missing and carrage the most cataloid description of carrage, and the neight they should crity. They alvall be instanced in the management and facing of the exiting

Lecutes ant-Colonel A Templeness Communiting 1 21st I us i ers

and should accompuny corps more up in shelf in charge of the transport.

I cannot advocate off eers being taken from their negments for my such duties. It is to the determinent of their corps, and as the precenting of evaulties in schon as always high sunogest officers, if or services can be set to squared from their regiments in time of an extreme services.

I renteaunt-Colonel G. P. Walker, Con m. vol. ng 1 12tl. I oot. I should imagine the simplest plan would be to attach regimental officers to the trusport service in time of perce, in order that they should be duly instructed in the event of war

Jesteman Colonel D Warren Con man b g 2 14th (Prince of Wal's O'm) Reguneat Officers could be trught then drates connected with segmental trains of which see rung with their segments, but for due stronger than guart it as were connected with commission and army stores. I consider an officer must cover to be a regramment of after must cover to be a regramment of after when the moderates from most remaining for such disk. It is could upper it more economic it to most remaining the such disk. It is could upper more economic it to proper truming in the management of animals and distribution of appets.

I entenna! Colonel G W Pugel, Country, log 84th Reg me !

In my opinion, a proposition of company officers should be attracted to the commiss and (or transport department if separated) to learn these dates

Leuterant-Colonel J S Haud Comman lug IRI R —maqui Should be transed at the centre depth, and aftern ands do duty with his regimental transport.

This like other operations of active service, is very difficult to entry out in price time. Smallting might be done by a clear and simple code inset submay, and attributing as murin regiment of eres as no side, to

Litaiena i Colonel J W III _pl es Sith Ne_p one t

> the truny out department, whenever any considerable force is collected and moved. They might then be placed in charge of sections of transport, and at the same time be alforded operationises for harming its general most because

(1078)

Locatemant Colonel C B Knowles Commanding 6"ta Regiment

Presuming that in fiture there will be a nucleus of a military transport comes maintained on the finities, if not me ch of the pres trusport cope manufactor of the products of the products I not not cope the products I not not cope and the products I not not cope and the format of the format dutter. The format is setting the cope and the products of th

management feeding, lording and powers of the various animals used for transport purposes, also weight of loads that nagous and carts ought to carry according to circumstances. A regular course of study to be pursued Lect es to be given by veterinary surgeons and qual fied transport officers

Should recommend that the lectures on transport delivered by Colonel College when Professor of Military Administration at the Stiff College be pinted and resued to the officers attending the schools All officers wishing to qualify is transport officers to have some knowledge (colleging) of Native languages

Officers passing through the schools to have a capital T placed opposite to their names in the army list

Non commissioned officers and penates might attend the school with great alvantage to the

Latutenant Colonel G. H Pa ker, 92nd H gldq ders

If a egular transport service was kept up, officers might then be taught otherwise I do not see how they can

Ma or F Stephen 4th Battalion Rafle Br gode. Major F S. Terry 1 2oth King's Own Borderers

Supposing the transport department to be formed as suggested, by attaching regimental officers to it for a short period I would recommend that subultan officers of between three and

seven years service, one from each Butash regiment with a proportion seven yeth service, one mean made integer regiment what is proportion from the still corps the former made supernument; the adjustment in the regiments, should be appointed transport others of their regiments, and be attached for dufy to the sub-commission at department for trans

port for three years. These would form the juntor ranks of the deputment, the senior ranks being filled by selected commissariat officers.

They would while so employed receive the pay of assistant commissary efficient it. Its 150 per measurem and would be available for general transport duty under the commissariat department for

This service should prove most populry, is these officers would so often be called upon for field service, not or ly when them regiments were employed but on other occasions. On return to their regiments from transport employment they would be absorbed by mother officer being sent

Major Hugh P Pearson, 12th Post.

By the system I propose regimental officers would learn their duties as transport officers and would be so employed an time of war But these should not be called upon to supervise transport other than that of them own regiments. My scheme provides officers from other somes for all transport service not included under heading (a) regimental

Major J H Campbell 33rd Regument

As young officers have to go through a garason course of matruction, -and this takes place at large stations, a here nearly every variety of transport is collected,—I think they might be metric to intrinsport daty at that time but the course of instruction should be as simple as nosal le, and should not keep an officer from rejoining his regiment at the expiration of the garrison course

Major J D Dyson Loune Sith Reg ment.

In my opinion it is as essential that regiments should be efficient in the management of their transport as in marching and it should be a The mongement of their transpot is in mining that it should be transpot part of their ordinary ord to unuage it. At present they are wholly mexpo anced. An office regmentally should be transpot off or all mataliated by, and responsible to the commanding off or for all matalians. ters connected therewith under rules which would require def ning

Mayor G K Shaw 58th Fool.

I do not see how they can be trught practically in peace. But it A con nesses now may cam be rugged preserving in perior. But it we do lie to step formula it to have a good testigner through inbibehed officerly, and let over piller have a copy. Such a work could castly be compaid them Wyor Funds; appear on transport in the Journal of the United Service Institution of India for 1878. Last year officers were sent on trat sport duties who were quite un seque ated with the minuals,

the system or the language of the men they had to do with I think more use might be made of non commissioned efficers of the European cavalry and artillery for the executive work of transport

teams

Major W H J Chile 72nd D gldinders

It is very desirable that both regimental officers and non commissomed officers should qualify for employment in the trusport service in time of unit, especially the latter, w —

1st—B3 being attached to the trusport department for duty in

peace time

ord -I think that a certain amount of the regimental transport should be always added to generate more or the regiment a varieties about he always added to be regiment in more time under the charge of an officer, escaled in non-commerced others, sy subsects for the purpose of morning the tents, legging, &c, of the two companies belonging to the moreable column NjeGSWhe 9°nd Heh landers It would be necessary to know the existent of transport like to be care both size a week tag a system of micro chom. A treat comit to mit week like a limport freshe and of the nameal likely to be a continuously likely to be a continuously likely to be a continuously likely to be a continuously likely to be a continuously likely to be a continuously likely to be a continuously likely to be a continuously likely to be a continuously likely to be a continuously likely to be a continuously likely l

Cpan H VPI Ha n 11 Protof Wa Gen) Rogm t

A certain n miler of beists sould be entertained in every regiment for local se with in chafficer and men could be trained (it answer [6])

Chemel C. R. D. Fran. Com mn l. Royal trible; M. crut D. son I consider that may average regimental officer required with monthed dies and many offers were alleuently qualificiations much truming the chief platfert outsit my opin on her githe joes son of sound common case great; it were and unbounded good termer.

Major II et a II hard III. M t S no ry to Has C uses he Go dru of Madras I think regimental expensions with a marting copy the level leavon A composition, or of the 1 piech of trapport state ad to is in good school. Information in viscolitated by intending at somma win to paint to lever the leading, of it made and which expendents for this red by reparted a tagget as in all for the scalled the study of the single paint and the scale of the study of the control of the sound in the control of the most of the control of the sound in the study of the control of the scale of the study of the control of the scale of

M + H C Let Commanding I Is No 1 Ar illery Detael a fer from the ring ments and noted emech to superior date i. Little a bear it e mour es of all emeds in lock et a coste of all emeds in locks e is cook es de Little a illido them sales penales appealed by themsolve. Let the in the sex hall shower will fipse be get them some rich it train port stores to effect. Order one of the off the triping are than mount of carranges it as a train after must into small.

I se bore pres 110 es le sil t on to enable the propos t ons to be green effect to

May FT Hum Commanding CCI jail it by I do not so s ler it desirable that recommental officers should be employed in the transport er nee and especially not in time of that

Mn W Mudo Com mall Fi Royal I carti ll; Mnj T M H g Com mand E 3rd Royal Art e;

A reply to il sque ton will be found in my answer to ho 7 in which lie educity it in almy it the jist of the subject.

I imagene il si good now comme se oned effects u until be on jly is effects, which to hat hy man held report. If it is considered not, sart to tend regimen i older il il lie by lift the distribution and that satisfies here there not it entile it a rise.

I j tie Hen A Steart Com dig IC load Hime Artalle

The endy position is not all beto keep up a cert in amount of trues post and requests under an officer and section number of a condition of most before a children for any rund artiflery and most in retiliery to a silectume in laid on a run in lass possible acts of the fitting of times in labels as method of growing and feeding and there is in the learned as the interpretable of the results of the silectument as the interpretable of the results of the silectument as the interpretable of the results of the silectument as the interpretable of the silectument as the interpretable of the silectument as the interpretable of the silectument as the silectument as the silectument as the silectument as the silectument and the silectument as the silectume

Mg CFNs n Toyal Hotae Artid

The sanswerel a 7 (e) a d (?) and 11 I would always have one offce from each rewment attrobed to the true orthogram has ungailed the sunder the dractor and has sensel as As stated in answer to questions 7 and 8 I thunk the duties might

Կյ։ Բեն Ը նշետ շ Թզբո ՝

be taught in gar reon schools

A cole of reg. but one with a table forms a malar to the or in most

Majo W H Nobe Roy 1 tr

code lollbe fra noutly compet tolkiers

Al code alollbe lountle it softle; of a faitle lepart
ment nig of litereton a tolo the aff / lolb pro il
no difere t perfectional a lod tars should thus le nas

from en reals sering in Indigitations 1 in above of the grant at the little of the property of

Can a C C B 1 13-5

I do not se my maste maginatured state it do it en aggretour en it two lument the do ely dang a semalitation in presentation in it is forted in the state of the magnetic films of the semalitation in the sem

I enterent F C T'see RA No 4 He ers Mountain Britisty Lucyb I router Force

If Government would allow each regunent and department to Leep up a certain proportion of transport permanently with a regular estalh-hment there would be but little difficulty in every regimental off eer making himself acquainted with the work, and so quality himself for work under the transport officers in tame of war

Colo el O Williamon 2nd Ben. gal Cassim

As I am of opinion that two additional officers are required with enalty regiments to complete their organization, I do not see how any officers could be spried for transport duries, that is to say, if they are supposed to be withdrawn from their corps

Colonel II gl Go gh Command ant 12th Bengal Cavalry

A transport department having been organized, every British regiment should be cilied on to dothi one officer, a subaltom and every Native regiment, a Native officer to be at all times attached for a period to the transport service of the station or district. These officers to be relieved on occasion

Captan W G Gerard, 2nd Central India Horse

This is needless with Native cavalry, all ranks being accustomed to pony currage—the most difficult of all to manage properly Por British corps either by maintenance of a small amount of agamental transport in perce which could be utilized to carry firewood, rations, &c , in cantonments, or regumental stores from nearest point of ralkay, or by attaching officers for a few months to newest transport trun division, who would have charge of a section, if possible on convoy, and access staff pay for the tame, conditional on satisfactory performance of work

Brigad er General C J Godby Commanding Punjab Fronter

By attaching them for the time to the movemble column transport under the transport officer of the quarter master general's department But regimental officers could hardly be spared from the small establishment of a Native regiment, although perhaps officers of a British regiment might be

Colonel T G Ecunoly 2nd Pumpsb Cavalry

Opportunities could be given by employing the moverble column, or at cumps of exacese manched purify for the purpose—an, from Lahore to Peshawar and back. Ruheis too might be arranged with this object to murch in Page bodies

I entenent-Colonel C LaTouche. Commandant Peeus Horse

I would attach young officers after passing their drall to the transport for six months during the busy sereon, say from 15th October to 1st Murch, in the same way as they are now sent to garrison instruction or army signalling. In this way two or three officers might always be attrached to each section of the transport corps, and whilst learning their duties, they would be useful to Government, and would be available hereafter when the details of a reserve system had been decided upon

Locatement-Colonel J H Malcoluse: Commandate 3rd Smil Horse

The only plan that occurs to me is that every regiment in changing quarters should move with its transport and supplies as if on service, and it would be the duty of commanding officers to see that their officers knew then regimental portion of the work.

In the same way convoys of ordrance stores, ammunition, engineer stores, and commissatiat should be moved in the winter complete as if in service, and extra officers might be attached to all to ler in the organization of each, the commissariat being employed as on service an obtaining and fu mishing supplies to the troops or departments with which they may be sent . This would of course entail a certain amount of expense on the State, but nothing can be learnt without actual protree

Major A P Palmer 9th Rengel Cavalry

One officer from each regiment British and Native, in India should

Corolly be desired two each regenerate formed must be desired to the corolly be desired for transport durings, and drunged numerily, it possible Reguments and butterse north of the Hedem should be permunelly equipped to the extent lead down in Bengil Army Regulations, purgraph 2829, as follows evaluity I spirition, infurity 200 men, raillery 2 games Reguments south of the Dielon ervilry 1 quadron infurity 100 men, utility 2 games Reguments rows the old frontee and in the Denyit might remain quiped to the extent author-

uzed for the Puny do Frontica Perce

The current except in exceptional localities, should be available at 24 hours notice, and reserve, as at present half rates while in employed

he flying column, consisting of the troops in each station, equipped as above should be fit-quently excressed in the daild servon, being sent out for a few days at a time with natimetion to attach contemports from certain points, as a st eleten enemy, or take up position within a radius of six index of the station &c

The regiment of trumport officer, two non-commissioned officers, and two men would be in charge of the current of each dutid ment. Instructions for their gustimes in all occusions would be circulated by the director of transport, and could superinted lends would make frequent tours of inspection to ensure regimental trat sport officers understanding their duties

At eraps of exercise, impered darbars or other large assemblages of troops, regimental transport officers would, under the system proposed, have under opportunities of learning their datas

Colonel II & Obkard Commund ant Mat Brugal I dustry

Terching is quite unnecessary as regards offer is and men of the Native army, and alm st so in Braish regiments that have laid a moreh in India in whef The men of Artice regim nt. are used to the management of animals from their childhood

Colonel P Dan ly lee Command mg 19th Native I starty

Officer, would read it learn their duties in the same way as they have qualified themselves to be musherly instructors τ , by the study of a handlook and of the regulations which would be published by Government for their guidance

Colenel G W Fraser 39th As f on Info stee

Officers at present in the service should be taught the duties appertaining to the transport department in the garrison classes, where those duties should form a sepan ite subject of study

T. retenant Colonel H. Worsley, Comma d ng 7th Vatise Infantry

Officers entering the army hereafter should be instructed in these duties at the military academies Regimental officers might with advantage be attached temporarily

L enterent-Colonel B 5 Walker, nandant 17th Nat ve Infentry

for duty to the commission or to the transport depots suggested in Except at cumps of exercise, I see no chance of an officer obtaining

I sentenent-Colonel R. G. Rogers, 20th Punjal Actors Infantry I stutens i Colonel F B Norman Commail g 24th Pu jub Natine any practical insight into the transport system No, unless the regimental transport system be established perma-

Infantry L enterprit Colonel H St G Treker 11st Nat re E factry Inte Super nicolent fransport fran 41st Value Infantry

nently, as in the Punjab Frontier 1 one Transport daty is really very simple. An officer of a Native regiment, who has noted as quarterma ter on the line of march, or with a moveal le column, ought not to require further instruction

I nonkl suggest that a book of all transport rules and regulations, and giving as much as possible every deful regurding transport currier of all descriptions should be an ten by the director full head by

Generations and the every afficer in the virty will all the feet afficers the virty will all the feet afficers the virty will be directed to furnish largest with a copy which should be jurioused with the other bools at the percodual inspections by the general communiting the division of width, and if the size time as the other examinations take place each officer should be examined as to his knowledge of its contents. Any offices desirous of leng illowed to join the department should be allowed to serve under one of the supermitendents for at least six or nine months giving him every assistance, and learning up every detail as to the working of the department how the recounts should be kept, &c , and it the end of his probution he should be called upon to pass in examination the papers long cent down by the director

There should only be allowed a limited number of probationers for the department and they should be allowed Rs 1.00 staft pay in addition to the staft corps pay of their rank. These officers after brong presed the examination and made themselves perfectly are ranted with the working of the transport and the management of the accounts, nould prove invaluable in time of ner as or istant superintendents, or to officiate at my moment as a superintendent

Major Sr B P Bromberd 46th Instre I dankry

The introduction of a regimental transport system would effect something. It would be a good plan to jet one officer—not the quarter master-in charge of all the transport arrangements whenever has regament marches Let him make out all the indents, bills, &c . and settle ment inverses the man in an outer the indexing only to a non-secure ap with the crusi and cut men, and finally with the commissant. It nould be good protice. The publication of a concre-ect of rules and regulations would be of the greatest service.

Major 1 C W Crockshank, Com no. d g S2nd 1 or ters

Yes, this is a matter I have often though out, and I have always regretted the want of some repository (not can clery) for the vast

negreeze use wran of some rejectory just (a story) for the virus expenses greated in faith. No vary be it sit soft expenses of transexpenses greated in faith. No vary be it sit soft expenses of transport as the latins, whether he set, where on read, one plants and
not make the properties of the set of of the parties and the second and the second along as I did from the Ir due to the Itchmand, could not trace much of the suffering of the number and drivers to the membericane of officers in el arge. Now experience is most wanted at the opening of a compagn -ce a sal que le presser jus qui coule-ull the more necessary therefore that the first sten should be taken well

Much experience of transport matters has I can lost to officers and men by the substitution of rulus; for route nurching. On this seon, alone if not for health's sale, I would advocate a rever ion

to the old system of marching regiments in course of reli f To ensure a general knowledge of transport I non fodge, there should be a transport school, all ere young theer can be trunc I by practical work and leel ares

Such visible would be margenested, it is did not you to our expenses and to not it practically a price of tool compressing bill and plan should be taken and noticed on a war transport a stem believed to the contract of the ment and worked as in war. If started, there should be on each line an officer to supraintend and assistant supraintendents and it insport officers as required. Stage, should be appointed, with a project siall, and a regular system of invoices journals, reports, and accounts brought into force. Young officers effected from regiments should be attached to these lines for an months at a time, and after under going at a head quarter station a course of lectures on transport daties, care feeding, and clothing of going to a new quarter season, construction of costs, fitting of prek saddles, palans, I armals, &c, conduct and defence of conveys they should then he sent to usest it, and contrall; or moved, on outpost. Once trught, they should return to their regiment, their quithfactions be recorded recording to ment, and their names published in the nimy list

Government would thus have a body of officers ready at once to start on an accepted system An idea seems to prevail that any duffer is fit for the transport department, and the department is generally considered a convenient residuant for pestering volunteers, who extinot for many reasons be provided for elsewhere. Experience trushes that in officer ennot be too good for transport worl and that it requires a high order of intelligence and administrative ability for its efficient working

Major F F Bo troff, Alli Gentlins Tele answer 12

Colonel H Bostagon, Com ma dug Ith Sakhs

The immediate organization of a fransport department is of vital necessity Colliterally, railways and trammage doublike puled on rapidly, thretion engines used and light carts. The above course for the planes, in the bills clephants, camels, mule, pomes, bullocks, and eoolies

I e tennat Colonel J J Baswell Comman lang 2s d Sakha

The younger officers with regiments whom it might be the intention of Government to appoint as transport officers might be attached to regiments of the Paujub Prontier Force to lean their duties as regards care and treatment of biggage cattle. Were the superintendent of transport uppointed, he might organize a system and teach them

Lieutenant-Colonel F T Base brdge 4th Sikhs

By being attached to the transport service during camps of evergre, and also temporarily doing duty with the transport in times of peace, in districts where they could learn the system

Magor A G Ross, 1st Salis

Putting aside veterinary knowledge, which is good but not essential if good vetermary shouldness are simpled, I think you want as trues post officers only good well trunced regimented officers receivanced to sestem and datespines, and as he see declare to thate and patient tunner lor suddling, &c, an officer might attends central depot for a month or so

Colonel A Jonk as Commund ant 2nd Madras Sature Infants

I would suggest that all escort duty now performed by the police such as charge of treasure orderance, and commission to stores, should be performed by the Native army. Its experience would be aduable to officers and men

Colonel W A. Gub. Com undant Both Madras Native Infantry

Practically, by sending them out with moveable columns not quite understand this question, or what the officers are to loan. I am sine it I started with my ic ment to-morrow for the held with so many bullock-cuts, so many ermole, so many pomes, I could take care of them with the resistance of my officers but if my young officers are to be bright anything connected with the field, to if them practically by taking them out into it. They must be at our and healtly, and good riders, and able to stand any amount of exposure to the sun

Colonel S Edwardes Command ing 2nd Bombay Native Infantry

The commissatival and transport department should form a portion of

the general state of the sum;

The uppointments to it hould be tend le for three years in the higher grade and for three years in the lot er. No officer should be allowed.

ground for the control years to denote a control some to be the control to the co commissant d partment require officers spearing tenned for t Lapenence, however t aches off cr wise for, whenever was break and, the experienced commission of the fact that and total ly mexperienced officers take their phoces and conduct the duties efficiently. Under the system has a adverted, there would be in time a large number of expirenced officers in the arm; and when nome were sent to the sert of arm others would be available who would be acquiring with the duties required. At present the knowledge of commissional duties is restrated to a few, instead of long dismandel As prevent the among the distinct of transport date, and making the department a join in if the general staff of the rany, would improve its states and in let it more accept the to the army a long.

Officer 4 and the radical of also is justify in transport datase. Their ma, the best transport allows.

say Rs 10 per mensum, to be drawn by an officer in each regument and bargade of artiflers who ornhies by serving a yen in the trinsport trun and by passing an examination in trinsport dut (,) for knowledge of the vernoully being one of the tests

Colon of W B aboy Ruffes Banucrinan 4th If some regular system was decreted on, and the details published, officers could qualify theorete lly, and we all qualify instact therefore with a perceeding to your their which it is well proceeding to you their which is there we no mean that I can see for an other knaming it is well procedually in time of pace.

Colin I II Jame Commo I ria 19th Bout y Nat e Infa tra

This can only be effectedly dimental ere as some I mad fixed from post string in time of percent sealers and the father of the purpose. Under the present sealers, I don't think it is possible to instinct others. I closely nd, it least not practically Colencial Farbretter Commanding 22nd Bombay Kata a Infantry

Let the transport service be regularly organized, have depots of instruction at head quarter elations, and attach officers to them for a certain time to pass's cour e the same as in the case of aimy signalling or must eit; 11struction This is the most simple part of the whole question of trumport

Colouel J | Walles Comm stary General Bengul

According to my ideas there should be no transport kept up evec on the frontier, because of the expense Should it be decided otherwise, then it will be composed, I presume, of currage locally obtainable, which, of lured, would be engaged at two rates-ore for contonment the other at graze. All the former would be worked by the commissariat in can tonment — a very lumited quantity. The rest would be only seen once a mouth. I cannot suggest how my mental officers could learn unathing of transport duty under such encounstances.

Column R A. Moure Acting Comm s ary Ge coal Modeus

By attaching them temperately to the commissatiant and placing them in commissivit telearge of a British regiment on the line of manel, entired ag them with the charge of all the public enrange, and requiring them to provide the supplies on the march and to render the accounts

T enterest-Colonel M W W Henglit Acting Communication General Bothly

As explained in reply to question 7 (1), I would propose that regi-mental off eer, should be detailed to the charge of the transport at all large centres This, if carr oil out would give employment to a certain number of officers and at the minor stations, where it may be decided to retun field column carr age. I would place it in regimental charge, on the understanding that the commissions should have the use of it when reourred and this small charge would afford some instruction to the regimental officer detailed to supervise it

Colonel I H Siley Deputy

All accounts of transport must be lept by Native agents sending accounts to commission officers through the transport officers. Irms port officers must be in their dates as regards feeding and care of an mals The rules had down in Peshawar I ield Force orders and in several encitus (copies put up m ried Apjendix L P) publis ed by meduring this campaign point out clearly the important features in these matters the standard point of the control of the information of the which should engage a transport officers attention, such as repairs and rafilling gent grooming for and ear of anonds adjustment of loads.

These rules, if compile i in a concise form, could be easily learnt by all officers especially at foutier posts

APPENDIA E

Copy of a circular No 73, dated 2nd January 1879, from the Deputy Commissury General to the Com miserriat and Transport Off cers

The attention of executive commissaint officers is again called to the necessity of sending tilm a rabs of all camels proceeding on service with regiments, &c , by the camelmen. See also to day's exculars

Copy of a encular memorandum, dated 10th January 1870 from the Deputy Commissiony General to the Commissional Officers

I vecutive officers are cornectly requested to assist the transport officers in making at ouce a settleont of accounts with the camelines up to 1st January 1870, and to issue fresh itlanamake from 1st

The sessance of commanding officers should be untiled in risking actionance up to let

January 1879 A chowdry for each brighte should be told off and sent to male at once a list of owners, and

the transport officers must verify these lists in consultation with brigade officers

Copy of a circular No 81, dated 21st January 1879 from the Deputy Commissary General to the

Comm arrat and Transport Officers As there is still some uncertainty felt by transport and commanding officers right ling the feeding

of lured cruzels, it is notified for general information that the cruzels ar to be it I daily while there is a search of foreger and there is to receive one see bulley and four sees blocs I daily Where the ermel our ers can provide for themselves they will do so, where they emmot, the

transport or extrain adding officers will possible a radia upply, and tecord all porch was mode.

8 As (grade 193m at the matters off he referred for or level Government, but in the matters of he referred for or level Government, but in the matters of he referred for or level Government, but in the matters of he referred for or level Government, but in the matters of he referred for or level Government, but in the matters of he referred for or level Government. Gener 1 Stone t here used In division order to the effect that one dup oper measurem per camel us to be deducted for the food the camels have recented (magginaly in many cas a) from Government, and

entition for the count to real factories and economic functions in many was 3 and discrements, and extiliated for a much to 1-th January has been ordered on this system. It is the lety of in useps 1 and commending officer, fast (commending officer) to see that the animals 2 x properly treated and well felt as t. confort of the any layout a settle transport beary legs na offin t date

5 This circular to be shown to all officers concerned

Copy of a cucular Ao S1, dated 29th Junuary 1579 from the Deputy Commis us, General to the Commiss riat and I reneport Officers

Batches of canels a c ent up as they become available, but in returning them ity to get rai e class of with the or o batel when practicable

As there is a difficulty about officers and escorts try to make up batches to 500 cach. This is the largest number that can well be worl ed in one convey

Goser of tes els all to be put to one batel a d of mixed of h lived on acla.

Camels to be purchased as quickly a possible and kept for con on or godown purposes where they can be easily supervised

5 Courses she lister as early respons he to get over it e singe early and allow camels to get what little grazing there is to be Ind. and to enable officers is see fixed as given red and given to an male before it is dark. There should be no be terming on it is road.

6 A fai gue party should be told off to supervise and assist in loading camels as quelly as possible

7 As a rule Quetta curies and guards should only go as far as Chumun and comels and guards should be changed there. It is hoped a large number of camels will be allowed to work question Kandahar to Chumun as there are very few camels and hide on this is led Quetta.

8 B abee camels work to Quetta most sat sfacts by from Dadar but at present they refuce to

go beyond Quetta

9 Lette to be sent to officer communding at Chaman warn og him to despatch conveys so that he may be alle to arrange for exchange of guards

Copy of a c reulur No 113 dated 17th February 1879 from the Deputy Commissury General to the Comm search and Transport Others

Transport and comm areat officers with troops are requested to have careful a ster rolls prepa ed and a good for all counts on the east regularity.

2 They Recompt a the than amaks with the camelines, and note that the numbers are est

actually agree with subers aloo as still alive and pre ent as per thanamaks noting my difference

on those p pors

3 The recounts of all camelmen should be safe up as o see to end of each month. All recounts up to 1st January have at so hel eved been settled 4 The recounts m st be all made re dy on the narch and before troops reach Quetta. The

attent on of t ruspe t officers is specially directed to this very majortant point.

5 It is hoped all advances have been regularly entered in itlanium his

Copy of a circula No 1 3 dated 23rd Ma ch 1879 from the Deputy Commissary General to the Comm ssar at an I Transport Officers

Thrusport and executive commissarrat officers are requested-

 To see that the number of camels for wheth here is channel are present or accounted for
 All differences between those now greened a divingual title a sike and those noted on original triangual to be duly record d on to breek (3) I syments to be made in prese as of the man whose and so the tla and the owner of the

camels and both na b el o venes

(4) The over's ame nd fatte s a c and village to be recorded on the recept
 (a) In the event of dates of deaths not being recorded an average to be struck between the dates

on which district information is noted (f) Where in owne presents an itlan mak and desires settlement without any data is whatever

be not rutes, a characte much be n as to use officer a short be a set complayed.

(7) As the object is that a much owers if o liberally dealt off a difficulty actifely the as

see as post ble the transport affiner she ld exerces his judgment in proparing a fair settlement, which if cone ned in by exec the commissional officers may be prid at once as noted in paragraph 8.

The abo e points to be attended to in and ng cettlements with cancil non

Copy of a circular No 206 d ted let M y 1879 from the Dejuty Comm stary General to the Comm stary and T anspot Officers

All s rooms a d n letter s sloold be pad month y in presence of transport officer by the Go era ment egent and regular and e rolls of animals and men lept

notes organic consequence on a few or animals and access the filter with the filt show that it is men § When men are sent on command they if new retiliarized s with all show that it is men were paid up to the last day of previous month and the advantage of the sen or year due to attendant his name being entered on that and also a muster roll for reference. If on umber of muleteen

will be noted also in thanamah and muste roll 3 The 1 lan mah Il slov tie date up to which the minuals and men were retioned and from whose rolls fles have been noted us o command and they all be included in the column as on

command in the muster roll as usual with Hieturns of Government cattle

APPENDIX F

Curcular by Colonel T H Simizz Deputy Comm sury General —No 208 duted Camp Quetta 4th Way 18 9

The Deputy Comm sarry General I as the honor to carculate a fe in les for the guidance of officers

un urpusy community venezat as the behier to creatists at a rise to the guidance or officer of the transport department and to sail at that as fir as pert only lie flowing, be act by to 2. These rails are to be considered as a applementary to the e pub. I I under state, on of Gover most and creatists with the office listered to 19th October 18.8 copy attached 3. The is apprenticipney will solve the oad off all community officers to creatis them to carry out the saturations from a conf. set of each entired too affect to creatise them to carry out the saturations from a conf. set of each entire out on of the 1 management of all and transmosters. importance and attention is here called to paragraph 5 of the old transport rules

CARE AND PREDING OF ANILARS

Ret o s

Il e first point to which transport officers in stipar attention is the condition of all the gen The palans and pads must be kept in perfect order frequently re-stuffed and made to fit each annnaí

- The gear must be carefully put on the animal's back, so that the load may be properly adjusted
- The unimals should be laden quickly, the pemadar seeing that all the attendants assist in 4
- loading As a rule, the animals should be laden early in the morning, and should move off at once to the next encamping-ground, and on arrival should be sent to graze A certain number of animals with nets should be sent to collect bhoosa or fodder

The animals should return from graze one hour before sunset, when they should be well rubbed down, and phools adjusted for the night

7. The running shoots at manest, at an experience of the property of the baries, should be crueland, hand-mults being carried, one pair to 20 cancies or males being fairs with each batch. S. The condition of the animals should be reported daily by the generators, and transport officers should see the animals' beeks as frequently as possible. Directly an animal's observed to be guilted or otherwise rendered unfit for work, no loads should be put on the animal

9 The attendants of all galled or unserviceable animals to be punished, either-

lef, by being put on half rations, 2nd, by fine,

Hatamer, iron, for driving pegs, 1 per 25 mules

Brush Curry-comb } 1 per 3 mules Jhools, one per mule Surengle, one per mule

\$rd, by infliction of corporal punishment when the neglect is gross and culpible

10 The jemadars should be warned that if more than 5 per cent of their animals are rendered

unfit for work, they will be put on half rations and fined 11 As a rule, the "ulotine, blacksmith, and movelnes will be kept at depôts to effect the repairs more quickly and satisfactorily, but with large conveys a portion of the establishment may cometimes

be detached at discretion of transport officers 12 Trunsport officers will be told off to superintend batches of about 1,500 animals, and will keep charge of the same animals as far as practicable, 1,500 animals being about the number required

abey errors of the open for a broade of troops

13 They will see that the daily ration is provided on the line of march, and when practicable to the name of the countries of food required for the animals at each stage. When moving with the army, they will assist commission officers in collecting supplies

14 Trusport officers must obtain monthly muster rolls from commanding others, showing the

11 "Prosport concers must occur mounty muster rose from communing univers, scowing the number of namels employed daily with each detachment of teorps, and the duties on which employed, e.e., with legging, tents, ammunition, stores, private command. The neglect to obtain these muster rolls, which should show all increases and decreases, has caused much inconvenience.

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ESPABLISHMENTS
                          Camela
1 Nath-chowdry on Rs 50 to every 1,000 camels
1 Missildar
                 on ,, 20 to every 330
  Jemadar
                                                                    Commissary-General's letter No 542.
                  on , 12 to every
                                        160
                  on , 11 to every
                                                                  dated 22nd January 1879
1 Duffadar
                                         80
I Sarwan
                  on ,, 8 to every 8 camels for logginge &
                                     4 for commissariat stores
             With warm clothing and ration
                           Mules
1 Jemadar
                  on Rs 14 to every 100 males or yaboos
                                                                   Commissary-General's letters Nos
                                                                Commissary-crements 210 and 705, dated 11th and 28th
1 Duffidar
1 Syce or driver on ,, 8
                  on , 11 to ,
                                         50
                                               71
                           8 to "
                                                                 January 1879
                  on , 12 to every 500 on ,, 12
1 Blacksmith
                                                                   Commissary General's letter No 910.
                                                                   dated 5th Tebruary 1879
2 Mooches on ", 8 each
1 Nalburd (pay as may be found necessary)
With warm clothing and ration
         GEAR SANGTIONED FOR CAMBLE AND MULES
                        Per camels
    1 Palan
    1 Nose rope
1 Set of loading ropes
    1 Jhool
                        Tor mules
1 Pack cuddle, new pattern, complete with I head
chain, iron, head stall, bridle bit, reins or
    loading ropes, and suffra
                                                      per mule
1 Heel chain, iron
1 Set heal straps (loops)
2 Pegs, tron
                                                                    Commissary-General's letter No 243.
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(Sd) T H SIBLEY, Colonel. Deputy Commissary General

dated 11th January 1879

The following rules are to be added to the general rules published with my circular No. 208, dated 4th May 1879, on case and feeding of transport animals and are to be read is paragraph Ca 6t. and 60 -

Ca Whenever any other description of folder is procurble, white (i.e., thent or barlet) bhoosa should not be given to ennels. Missa (dhall or gram) bhoosa is the proper food, and these should be given, if obtainable Grisses of soils, including linearine, green bailey or wheat, are all good. and may be given

66 H power, most o gram are procurable, they may be given in preference to bailey, and barley

should, as before noted be ground, if possible and made into atta balls

for It is to be noted that the ration of fodden is the minimum ration and is fixed on the supposition that all the animals will grave for 4 or a hour duly. Where no grazing is precurable, extra todder may be given to the extent of 2 seers for mules and ponies and 4 seers for camels under orders of general commanding

(Sd) T H SIBLEY Colo et. Dept by Commissary Garcial

Deputy Com issary General

SCALE OF RATIONS FOR CAMELS AND MULES

Camele

2 seers of grun 4 seers of bhoosa per camel per diem, with grazing Commissiry General's 1 dated 25th Lebrasia 1879 Commissary General's No 1136 Mules and nonzer

2 seers of grain 6 seers of bhoosa per sumal per diem

In Afghanistan, where fodder is scarce, I seers of bhoosy is to be the ration of fodder for mules and ponies, with grazing

Tormation of troops of unites and exuels

The mules to be formed into troops of 160 cach, with one jemadai and two duffadars The cymels to be formed into thokes of S0 under a duffidar, with jemadars to every 160 and

missidars to every 330 ermels

3. The spect will receive 3 mules even and the smanns 3 cruels and they will be lept with these annuals of mere change? Such numerls, sequenting separate testiment in hospital, will be looked after by spire attendants. As a rise trained will be treated in their own lines.

4 The jemadars and dulf dars will be responsible for the animals and gear of their troops or thokes and the rumals will not be changed from one troop or thoke to another

Where troops or tholes are briken to complete equipment of regiments, animals detached from one troop will be attached temporarily to another troop or thole, but will be lept on the rolls of then original troops or tholes 6 A duffadar will always be detached when more than 25 mules or 40 camels of his thole are

cent on command (84) T II SIBLEY, Colonel,

Dated Umballa, 15th October 1878

From-Colonia T II Sibley, Deputy Commissary General and Chief Commissariat Offices in the Field

To-The Superintendent of the Transport Train

In forwarding the accompanying rough rules for guidance of officer, appointed to do duty with the transport train, the chief comm several effect feels confident all officers will use their best efforts to aid the officers of the commissariat department in introducing discipline and regularity among our fransport men

the services of Native troopers have been applied for, and the definite order of Government on this point will be circulated heriafter

Extract paragraph 8 of Government, Mildaes Deposits on 1, No. 223K, dated 8st October 1878, to the Commission, Governal Beyond

19 For the rest, the proposed rules for the regulation of the transport service appear generally

suitable, and are approved by the Government of India

The formation of a transport train having been ordered by Government let service with the troops At present 3 assistants are requiredordered on service, the following rules are lad donn l or kohat Quetta Dera Ghara Khan for guidance of all off cers concerned -I The whole of the transpat for the army in At present von tant superinter dents are required-6 the field will be collected and placed a der the im mediate orders of the commit are general in the I or holat Quetta field or the sensor commissariat efficer pre-ent

At pre-ent there v H by required Native officers or men of cruder reguneals— 2 The senior commission of the division, in the Fer Itol at Qu tia well be assisted by superintendent of temsport trun Dera Ghaza Alban for creli division -

866 p. 1 Bs 339 4 Superment lents of transport filld effore or explains
1 Asset it supermit add, it for over 1 000 canada add eart, or 1 900 mades 101 27 for a ridat Lo diff for fine off regenders definders to person exactly respectively a relative partitle dark mounted sut of

(1087) I Appendix IV

The attendants for camels and males will be provided by contractors-one camelman to three camels, one muleteer to three mules, one eartman to each cart

A naily chowlers on Rs 50 to every 1 000 cannels, a mule-thowlery on Rs 50 to every 1,000 mules, a brokery chowdry on Rs 50 to every 1,000 carts, those attendants will be under the orders of the assistant superintendents of trunsport

Butter of transport of our

1 S periodendent for each division 1 As stant super intendent for each brigade with opicition of Nativo officers Military requirement transport under communiting

Camp equipage beggage summination, 3 days pro-vasions periate curatege

Sign of reterms

Returned surplus forwards carrings to transpect efficies

Private earings here to be debited to communiting
officers monthly by pay department

credited in public accounts to Government month by month 4 It will be the special duty of commanding officers to see that curringe made over to their Commanding officers responsible for care condition and outloby of transport made over to them

having become mefficient

Dates of transport officers

To see the condition of gear

Selection of groung grounds, supervision of grazing

Packett pe of cattle

Sed assumals to be separated

A superintendent of transport will be attrebed to each division of the army, an assistant superint tendent to each brigade to assist the military officers recommending officers will retain with their regiments all the trunsport with each regiment.

military equipment of their corps and all private carriage, and they will sign mouthly returns of the currage so pheed under their orders

a grainer course of practices under course of the commissions through their trusport officer all printee certage which have become surplus, nod which will not be required again (nor can it be replaced), and the trusport officer will urrunge with Process carried and the late field is community communities of the contract of

> charge is kept in an efficient strite, and no carrage will be changed by transport officers unless satisfactory reasons are given for the cause of the critile

> 5 Transport officers will direct their special attention to the following points -

> The transport officers will excefully see to the condition of the genr of all the animals The nash chowdries to be forced to repair or

> remen all unserviceable gove 6 They will select under orders of officer com-

manding sife and good graving grounds, and send a Native assistrat out with eatile while grazing 7 They will see that all the cattle and stores are piel etted in regular order, and in spots approved

of by communding officers

8 A hospital for sick or discussed animals to be formed at some distance from healthy amm is, and

resistance of veterinary surgeon called for 9 On line of murch all the transport officers and then resistants to move with their respective transports and to near some marl whereby they can le disting ushed as officers of their transport trans

10 They will keep order on the line of murch, and with sp reattendants 10 mon til en from each batch of 1,000 camels, asset in reloading amunals which have thrown or dropped their loads,

11 They will on occasions of the enemy stize! ing a come of place all the animals in a sheltered spot until attack is repelled

12 They will were the neah choudnes to purchase food where grazing is scarce and it will be their duty to easire the animals being well fed To see cittle are led and report neglect and crued for, reporting all neglect on the part of the man chower es to the supernate dent of transport, who will recommend fines to be unified on the

the nub choose is to two myselfs the number of the period of the efforcings.

13 They will endeavour to enforce ponetarility and regularity on the part of the efforcings, and they will see that number to not leveling the second of the period of the efforce of the period of the peri

longer than is absolutely necessary, by not lording before they are required to more, and by unlording The transport officers will be in constant communiertion with the strill officers on this particular point so as to ensure this being curried out earefully

> by the commissionat officer of the division or brigade, without where sunction no alteration in the distribut on of carringe should be mile

> 15 In all matters of doubt or difficulty, they will consult the commission it officer of the brigade or division

Trans est officers to move with cittle fetching stores as the state of the country through which it will poss requires, and as the general commanding may decide

Pransport officers to move with transpo L and to wear d st ngomb ng ma k To remove obstacles and reload an or le

and in removing obstacles, such as brol en earts, &c To place transport in a place of sufety we en column is attacked and to clear read for troops

To see cattle are fed and report neglect

them as soon after mirrorl at eamp as possible

They will only comply with requestions for carringe on indents after they have been signed To comply with indents only after passed by commission of cor

To operalt commessarent officer sa matters of deficulty

16 As transport with stores becomes available, it will be sent back under orders of commissarial. or provisions

17 The trusport officers will always return with the same batch of annuals as they take down to the depôt, and will bring up with them a depli-To earry up involces cafe of the invoice. The owners of the carners are responsible for the stores laden on their animals or curts

18 Transport for the ordnance and engineer departments will be made over to officers of these

deputments, and un assistant superintendent of Trunsport fo engancer and orderance departments to be made over with transport officer to a powers.

of all tensement.

To counting gn all rolls of communiting offices and

Government criffs fed by agents to be supervised by transport officers

Mule train of I wed make to be organized on Govern ment erstent at Ratral Punds and Pouhar ar

two duffidats on Rs. 12 per mensem, to enforce orders and maintain discipline Leads for namuals which should not be received

Elephants 16 to 20 maunds, recording to size of animal Camels 4 mumds

Mules, 2 Corts, 4 per ballock

It is the special duty of transport officers to see that these loads are not exceeded, as unimals will break down after a long march

Cum of elephants 26 Transport officers will carry a supply of ordinary medicines, and will apply for services of a

Med ages for not entite Positio : in colum : of cuch class fo transport

Camp equiper beggage American strategy Regimental stores and provisions General stores

outede

Strictest silones enforced afte dark transport attendents who are nearly all lared men, speaking various dialects. They will find Native soldiers and others of much assistance in conteying their orders to the chordries and attendents. They should therefore use these men freely in communicating with the Native vitendants, they will find it much casier to enforce discipline by so doing

T H SIRLTY, Coloud. (Sd) Day y Commissary General, and Chief Commissurati Officer

Carcular by Colonel T H Sintey, Deputy Commissary General, and Chief Commissariat Officer in the Field —dated Umbilla, 20th Octol or 1878

The Deputy Commissary-General has much pleasure in circularing copies of letters as per margin.

M Many Deputsest. Government of Lode from the Covernment of India and the AdjustmiNo 5555. hard 18th October 1878

General regularing the emphorment of hattra General regurding the employment of hative officers and troopers of cavilry regunents Advatant-General's No. 109 deted 9th October 1878. 2 Euch superintendent will apply to the general officers of the forces for the service of 1

gemadar, 3 duffidars and 26 men from any rega ment and will leep these men attached to their column of suprintendence Kobat.

1 Robats
2 Questin
2 General Stewarts D vis on
4 Pest near Perces
5 Hustan Abdal command to sup-minimentary

Fed from Places | from local forces | 5 The supernaturation trill draw the pay and staff pay for those men from their regiments and will disbutes it monthly, sending acquitations to like differ commanding the regiment and keep will disbute it monthly, sending acquitations to like the differ commanding the regiment and keep will disbute to the contract of the contract

ing a duplicate of the same for record in their own offices

transport will be detailed for duty with each of these deputments Carrage that becomes unplus after expenditure of stores will be mide over to the superintendent of the division 10 The superintendent of divisions will keep

Superintendent of transport of division to keep roll holls of all transport, and surange in communication with the commissional officer for the payment of the owners through the chowdries

20 The superintendent of transport of each division will countersign every roll of counters

before sending it to the compression officer for All Government carriage, elephants, mules, bullocks, will be for by a critic agent with each burged or division. These will generally be attached

to regiments or departments, and will be supervised by the assistant superintendent of transport of each brigade

10 The bired mules to be trained and organized on the same system as that of the Rawal Pindi and Peshawai mule fanns

They we formed in divisions of 100 mules under a journal on Rs 15 per measure, with

24 The loads fixed for the different animals are

as follows -

25 Printed instructions regarding care, &c , of elephants are sent to each transport officer

veteriorry surgeon in extraordinary cases of disease 27 The general officer will direct in white position on the column of murch each class of trans port is to be, and transport officers will enforce

port is to be, and mansport oncers will entorce set of attention to the 1 do and arming that the different the factor was to take a their position at the Joper time. Lording animals before they are required will thus be avoided. 28 Stores should generally be placed within a circle and the cattle placed outside all round

This formation is a protection against thieves, and is Stores to be placed imade a circle and estile round the best for reasoning a sudden attack of the enemy on my consoy To ensure rest for men and numals, the strictest's lonce should be enforced and flying

sentries I laced round all cattle energing grounds 30 In conclusion the transport officers must use great tact and discretion in dealing with the

an He Bead

4 The Deputy Commissary-General hopes all transport trum officers will recognize the interest His Excellency the Communder in Chief has taken in the successful working of this trum, and he feels confident all will use their utmost efforts to raise the trun to a high state of efficiency, by looking after both men and animals under their charge

No. 355K., dated Simia, 15th October 1878

From-Colonel H K Bunne, on Secretary to the Government of India, Military Dept., To-The Commissary-General, Bengal

With reference to puragraph V of my letter No 228K, duted 8th instant, I am directed to forward a copy of a communication from the Adjut-No 103H dated 9th October 1878 ant General in India on the subject of the employment of Native officers and men with the trumport trum to accompany the troops on service and to state that the views of His Excellency the Commander in Chief, as therein expressed, as to the rates

same now me weeks of this Advantaged in a Commondarian Lonel, as merein expression, as to the rates of pry, &c., we accepted and structured by the Government of Lindu 2. The Desegn Cognitional will be addressed in view to the 35 officers and men required to complete the number needed for the transport train being furnished

3 I am to request that you will be good enough to inform the Government at once as to what stataons, and in what proportions, these detachments of Natave cavalry are to be sent

No 1856, dated Simla, 18th October 1878,

Forwarded to the Deputy Commissivy General, Upper Circle, with reference to clause V of Military Department No 228K, dated 8th October 1878, forwarded with this office No 1692, dated 9th October 1878

The report required in purigraph 3 of Military Department No 355, dated 15th October 1878, should be furnished on an early date with the return of the letter

(Sd) J I WILLES, Colonel, Commissary-General

No 103K, dated Simla, 9th October 1878

From-Major General P S Luisben, Adjutant General in India, To-The Secretary to the Government of India, Military Department

With reference to the subject submitted with your No 222K of the 8th October, regarding the employment of mounted Natus efficers and men in the general superintendence the temapert trum of columns under orders for serves, I am directed I) the Communded in Chief to state this, considering the important nature of the duty and its strictly multiny character, His Lycellency thinks the most efficient method would be to select a Nature officer s party, with say 1 jemadar, 3 duffadars, and 26 men, from several regiments for particular columns

2 Such a measure would ensure the maintenance of discipline in the body not otherwise procurable, and would moreover afford great facility in adjustment of men's accounts

3 I am to recommend a staff salary in addition to pay of.—

Rs 20 per measem for jemedur 115 ,, ,, for duffadar, 10 8 ,, ,, for sowars

4 Should Government be pleased to approve of this suggestion, His Excellency will be prepared to call on three regiments to provide 00 of the number required, while the remainder, it is presumed, may be supplied from some of the local forces under the Government of India

5 In the event of these men being taken away from corps, sent on should be given at once to replace them, as our weakness in Naive troops is a motter of verious importance.

PS-The unexam of your letter under reply is herewith returned.

Copy of letter No 816, from Chief Commissatuat Offices, Umballa, dated 21st October 1878, to the Principal Commissionat Officer, Quetta Reinforcement Force

All your camels are under your head-chowdry, who furnishes seeming. Naib chowdries for every 1,000 camels are to be appointed on security of head chowdry, and fresh security tal en as Heceseart

2 Psymeats will be made through head shouldry, who will distribute the pay He will arrange for payments at Mid and ot before men start on the trip to Quetta, going right through and at Quett's cometimes be will make other payments. As no exmels will stay on the read, they will be raid at end of pourmet, receiving money enough for the trip any to Guetta and had

3 The chowdry will sul mit bills and rolls a gard by transport officers, and you will pay them

for your division (see transport train rules sent to you)

4 Acut sport train officers will do wither own any and will be in all respects on the same footing as all other staff officers. The muster rolls of each daysoon will be signed by superintendent of transport, and counter 13 ned by accessing adjutant general, and cont to paymaster | Each officer will draw his

own pri

5 The pay of Nettree officers and troopers will be drawn by supermicedent of each drawn through the regumental millioraties, who will include the staff pay, and the pay will be distinged under his orders.

6 The transport train officers will ascertum from the owners of the camels and currage that they receive their pay monthly, and will take a monthly acquittance roll from them.

Poregoing circulated for information of officers of transport train

The camels and mules are to be divided into divisions of 1 000 each and called Λ B, C D, &c, divisions of camels of makes

3 The camel divisions will be divided into troops of 80, and miles into troops of 100, and numbered 1, 2, 3, &c , so A division cancels would signify the first troop of the first or A division of cimels

3 Norm and tolks of the attendants of each topop and drysson should be at once prepared the caused titundants colled numb chowday, messadants, poundants, duffundants. Sun case to be told off for each division, and in the same way, penadure, duffundars, and spees will be posted to each troop of mules

4 Long rolls of the uttendants to be prepared of all the attendants (separate sheets for attendants of cycly though in form in use in the commissairst department showing the crists, residence,

&c , of each attendant

The long rolls will be kept in the office of the superintendent and the nominal rolls only sent

with men detached on command

of The cursels at Kandahan will be divided into divisions A, B, C D, and the cimels at Quetto
into I F, divisions as more causels surve.

into E. I., divisions as more esimels surre T. The mules at Kandahar (Government) will be the A division, those at Quetta and to arrive B, C, D, &c

(Sd) T H SIBLIY, Colonel, Deputy Communicary General

Quetta, June 1879

Colonel M J Brander Offenst ing Departy Comm stary General Calcutts

I do not think all regimental officers are copulse of being made into efficient functional forms. The method of enabling regimental officers to require a formwise per dutie, he is less auggested in rely to question 7. I think that before in others undergoes the proposed cannotion in transport he should be vitached to a commissionate office for two months. He would there be no good deal in regards seconds, come not desenting of animals, and supply indraym of their gent, and for protected work all cand dates and presed others should be put in charge of the transport at emisper of excess which could, in my opinion, be formed on a small scale at the many of our large stations at bridly my extra expense, every oold second. If this completed on such day, all transport officers should druw base allowance and Rs 100 · month staff, to be misuse them for extra expense, required per hops in speparation

Colonel J Keer Deputy Com m story General Lower Circle Bengul from them own messes, having to keep extra horses, &c

I know of no old er jossible than what a commustant officer receiver
th would be well if an officer of every regreament could be ittrobed for at
less one year to an "exemitar office. The training he could get would
be to deal with Matters, to mudactual cetth,, and to here no omn sear at
woul generally. It is an excellent training. I would however recommend that they receive a contain call for yo during thus there and what there are with their regiments or bettern on service, them their dates would be to feel wife; the carriage, &c provided by the commissioned containing under that department which would be regimented by the noncommissioned closer and Native, and with the regiment or buttery.

Colonel G S Machem Deputy Commission, General I to a Commission of clarge of the hhybro and Kurum Perces Let commission to officers select officers from regiments, and order commanding officers to put the selected ones under the commissional officer for tuntion

Colonel R Q Manager of Deputy Assistant Commissions General Kamptee Whenever's regiment arreches the transport for longarge tents ormunation to should be in a dauge of a sublimite material of the commissions engagent. The interpreter who now receives a small allowant for a smooting would be the best mus as the could communate with the Natures and a small interests during the march to his pay would make it worth has while to do the work if releved from regimental duty.

L entens at Colonel J V Hunt Dep ty Ass stant Comm seary General Bu gal If the trusport is to remain in the hands of the commissional, regimental officers might be required to serve in form in the food commission of five for a shert time in order to learn the woll.

If it is to be a separate department, they should serve such term with such den extense.

Major M A. Rewlandsen Exam nor of Commissions Accounts Madras It is difficult to provide for the knowledge of the practical dutes of transport, but the theory in gut be made a subject of examination for promotion Major W Luckhardt, Deputy As stant Commessary Superal Umballa

I think it very des rable that regimental officers all over India should qualify for employment in the transport service. To tech there officers then next, it will be a matter of primary necessity that orian rules should be fixed for guidance pointing out the way in which payments to be made, and the manage, in a list the little rule to be extended for

The officer recommended to be kept up permanently for innequent purposes should be appeared to state on a whose the largest number of field column carriage is just up and the latter should be pirced entirely under their clarge. In this manner mean could be infuned to earlied them to frum rug mentic officers and man practically, by phrong them in charge of cattle, and these officers and near would thus copium a lanouledge of forms and executed distribution of currange treatment of acts samals, be opportunities officered by curring of accres on momental of troops, might be made use of to give them practical instruction in their others on the lase of march and in camps

Capia a T P Hobday Deputy Assista t Commissiony General Kandabar The dates could easily be levent at the outset of a company Thomas have helpe of the long rags is securary and seldom obtained Officers so selected should got their mand to the work required of them, and try to master the rolls and accounts required. The truspect is unfortuneth bothed upon as a nerus of getting sent on white service and of pushing to the final. The local work is generally adstricted to officers and would I think, be better performed by warrant and noncommissioned officers.

J H B Hallen E q General Soudt, Herse Brooking Operations This question has been replied to in answer No 7

14 Should there not always be an officer in each corps especially charged with the regumental transport?

Leatenant-General C T Chambeds a car late Commanding Outh D is on The regimental quartermater always does the sixed of work at present, but his supervision and control soull, hunded to recording entrange from the evul authorities or communicated department distributing it to comprues hospital officers' mess, &e, and collecting the demands on public account

les, there should especially selected, under his commanding officer

I sent General W T Hugles on Con man log S that Deas on Lestemant Central J Forbes Commund ag Mhow D man There should most certainly

Major-Gener I A. W. Miscaline Cit. Cosmis di g. Hydershad Sub a diory Force and the chart director of transport

Yes in a Britsh regiment, in which efficients are numerous one
might to detailed to seast the quintermaster. In a Madriw Nition
rig must the duty would devolve on the quarternaster. No other officer
could be spared for this special chart. The transport of a Brit is
regiment as of sufficient importance to require the supervision of an
office detailed for that duty. In Nature regiment transport divines

Major General R O Bright CB, Communding Meerut D is on are consulerably less

Certainly if the system of regumental trumpert is adopted to any
great extent. The axis or to the last question would soon provide
suitable effects.

Major General H R Browne Cou standing Sauger D street

If a system of reg mental trusport was established, such an officer would be necessary But I am not prepared to recommend regimental trusport.

Major General J. W. Selme der On Co. a dam Northern D. a a co. Bombay (tra.) The quantum stor, or the officer representing him is usually to charged If an officer can be spread for the pur pose it would be obtained aground to the officer can be supported for the purpose in Antice come times when the contraction of th

Brigad e General G Batto s Que let Master Go tril Bun bay Ben dot General F G Femp ster Lois aund a_p Culed District s les the governmenter should be in charge of reg ment il transport

Brguler Colemia 1 Marray Col Veoltan Brgule Mest cert all very ait wile. He would leel after the interest of his own corps in a higher degree than a strugge is likely to do. Certanit, Hitherto the quartenmeter has generally been so employed, but on service his other duties tall e up too much of his time

Command g 4 h Corkl 23

Certainly It is the duty of the quartermaster

Most certainly

Celonel H | Burne CB Sect to the Gort. of India M | Det

Appendix IV]

(1092)

Col. J Macdonald Secy to Gort of Bombay Mily Dept.

Colonel A. H. Murray Deputy Adj tant-General, Royal Artillery in India

Lecatement Colonel A G T Hogg Deputy Quarter Master Gereral Bombay Locat Col H A Little Offg Dy Asst Quarter Master General

Major A A A K nlock Dep ty Ass stant Quarter Muster General

Leutenant-Colonel R Blandell. Srd Hussars L entenant Colonel II S. Cleland.

Locatement-Colonel Lord R D Kerr, Command on 10th Hussars

9th Lancers

Laentenant-Colonel J C Lo Quesne 12th Royal Lancers

I entenant-Colonel G Luck, Commanding Loth Hussars J W Chaples 8th Major Hussars

Major E A Wood 10th Hussars

Captain J A S Maclenzae 9th

Colonel J A. Raddell 1 26th Regiment Lieutenant-Colonel T Rowland. Community of 1 6th Fus hers L entenant Colonel M MacGre

ger, 1 18th (The Royal Irush) Laustemant Colonel A. Temple man Commanding I 21st Fus lices

L cutement-Colonel G T Walker Commandung 1 12th Poot

Lient Col D Warren Comdg 2 Inth (P W O) Regt

Lucutenant Colonel G W Puget Command og 34th Regument

Lorestevant Colonel J S Hand Command : g 44th Regiment

L cutenant Colonel J W Hughes fisch Regiment

Yes, the quartermaster

Yes, with a staff to be changed from time to time see reply to question 7

I consider that in each corps an officer should be specially charged with the regimental (iansport

Yes in time of wai, but in peace I do not consider that in India the system of regimental transport would be desirable

Yes , I have so recommended.

I think there should

Yes, if the officer is appointed specially for that duty and no other

Yes, he should be held responsible that the rules of the transport department is curried out, prejette all documents us on itsu transport of contraint in the transport of the curried out, prejette all documents is someteld theterville, when can set the should receive and hand over curringe, he masserable for, and supernicand, the cattle and stock. To enable him to it express the curried of the purpose should be proper seconds, a book specially compiled for the purpose should be attached to each regiment

Yes, certainly The quartermaster is always in charge

I think that an officer should certainly be selected for this duty

Most decidedly there should be , and also a sergeant (staff) and cather two sergeants (lance) or corporals to assist him

two acceptants (blace) or corporate to 'asses and ... In time of 'peter, however, they would not be required (everyt the trumport surgeant), as the segmental transport would be in the heads of the totop or company officers. The soft surgeant appropried as transport surgeant should have on minimate loweldings of the trumport of the district that would be mandered monthly The supplementary transport of the district mentioned in No. 2, assent I, should be absoluted available of commentality. In that the transport exceeding the standard and latticed programming to that the transport exceeding the standard and latticed programming to that the transport exceeding the standard and latticed programming to that the transport exceeding the standard and latticed programming the state the transport exceeding the standard and latticed programming to that the transport exceeding the standard and the standard divided and allotted regimentally, so that the transport sergeaut, perhaps with one or two assistants, might be well requriated with the cattle and drivers allotted to their regiments

Yes, but in India he should be in addition to the establishment

Yes, I think such is most advisable Certainly in time of wir, in time of peace the quartermaster does it.

Yes

I would suggest that such an officer be supernumerary to the combatant establishment, and his services utilized in some way when not actually employed with transport

Yes, presuming, however, that such an appointment is filled by a subaltion. I think that in consequence of the practity of officers of that rank now available for duty in some British regiments, it would be necessary to make the officer holding it supernumerary to the establishment

Certainly, and another trained to take his place in case of casualty

Most certainly Regimental transport in the field requires, in my opinion, to be in charge of at least one off eer and a staff of non com missioned officers and pravates All should be mounted Numbers, say 1 officer, 2 sergeants, and 2 men per company

les During peace all regimental transport at each station should be formed into a sub division and under the orders of the sub director

That duty is now done by the regiment'al quartermester The calls on a rigiment for officers for special duties are so great, that I do not think it advisable to increase them

I testenant Columbia B Knowles Communding 67th Reguests

Yes, but he should have some I moreledge of the duties he has to perform and should speak the language of the Natives who look after anımıls

L enterent Colonel G H. Perker, 92nd Highlu ders

les

Major F Stephen 4th Battalion Ride Br gode Most certainly

Major F S Terry 1 25th Eng's Oven Hardertes

I throw there should always be an officer borne on the rolls of the regiment as t ansport officer, but that it would not be necessary that he should be always doing duty with the regiment. Except on special occasions such as long muches and field service, I think it would be letter to leave the regimental transport to the charge of quartermisters

Mayor Hogh P Pozzses 12th Trot

of reguments I have so recommended, also that this officer be relieved periodically, so that me every regiment there should be several, if not many, officers

Major J H Campbell 33rd Regunent.

trained to transport work Certainly The officer a subaltern, should be especially selected by the communiting officer. He should not be exempted from any regimental or garrison daty, unless employed specially on transport work, but should be required to keep a home, and of course receive the usual

Major W H J Chile 72nd Highlanders

allowance There should be an officer and non commissioned officers in each corps especially in charge of regimental transport

Major G S White 92nd High-

I think there ought to be a regimental transport officer. If the regimental transport is to be employed away from the regiment, a trusport officer becomes a necessity, as the quartermaster could not he spired from his regiment

It will be necessary to offer inducements to offens to recept the ost which will require constant and very close attention to an irksome find of worl

(lept. H. M.L. Hatel son 1 14th (Prince of Walts Own) Regument

Certainly He should receive a certificate of capibility to instruct others

Colored C R. O Evens Com mand og R A, Moerat Day som. L catement Calquel T Katchen, Royal Artillery

I should think it would be easy for the commanding officer to select such a one when required A bettery of retailery as at present officered could not spare one, but if one of the officers were placed in charge of the whole quarter-master sergeants department (1:fe ruph) to query 2 of paper D), then

Major Revi a Hobert RA Military Scoretary to His Grace the Lonerace of Majors

this would prope ly fall to I im Doubtless one officer in each corns should be ordered to look after the regimental transport, but he cannot have my charge independent the regimental transport, but he cutton have my charge independent of his communing officer. Ours are not strong enough to space officers for every specialty. The quantum satu of a regiment and the cuptom of a buttary seem to be the proper officers for regimental truns-post duties, said by the officers of the rear guard in Leeping the car-

Magor H C I sweet Command up I-1st Royal truffer

ringe moving Yes If the duties of the quartermoster weigh too heavily for him to undertake it, another officer should be appointed

Major F T Hone Command up C C Royal Horse Art Hery Maj r W W W rilsch Com mands g L A Boyal Home Arty

Certainly there should be

This question is also answered in reply No. 7.

Major T. M. Hurelegg. Com mandag I Sed Royal Artiflery

I see no reason why the quartermaster should not perform the duts

Major the Hondle A Stewart Copyle I & Regal Her e Art Stry

Most undoubtedly

Major C E Na me Royal Heere Artillery

In peace 4 me I would have all the officers tramed in succession. In war time one of these trunch men would be selected to take charge of that part of the transport from made over to the regiment. The guar term ster does it at present. I would make him one of the few not eligible for this duty, for many reasons

Major P Piad Galluty Royal Art II 3

I should prefer to see a narrant officer of the trapsport brunch communicative definition to told off to the carriage of each regiment. I think regim neal officers should not be taken any from their own duties on service

Myjor W H. Ashle Regal Art Herr

Would only be neces us in time of war and during perce in regiments attached to bagades on a war footing

(1094)

The officer so selected should be assisted by some non-comm smoned officers of the corps, and should roce ve a staff pay

Capta n G C Baylv IS Sth. Royal Artillery

On service ves In perce there appears to be no need of any such appointment Unless an establishment of regimental transport were always kept up which I do not think describle n jeacs a reg mental officer would not gam the experence necess ry to make him really useful m wat Regumental transport: peace I look on as a useless expense of at least an expense which would not be worth men ring. Of course

L'enfement E C. Wass B.A. No 4 Hozara Mounte a Batte p Punpab Front er Force.

at a frontier station t m ght be neces any but nowhere else Yes in time of peace. The quartermister of the regiment might do the worl in time of wir receiving an extra staff allo ance for the increased we k that would fall on I is hands

Colonel O W IL nson 2nd Ben gal Ca alre

I scarcely think it necessary that in officer in each corns should be specially clarged the the regimental transport

Co onel Hugh Gou, h. Comman dant 12 h Bongo. Co. ley Capta a M G Gerard 2nd

Ludoubtedly Yes but in a Native cavality regiment this duty should be entrust-

Central Indea Horse. B wad e General C J Godhy Couning Pumpab Fro t or Porce

ed to a Nat ve officer The qua termaste of a Nat e corps s the fittest person to be in charge of the a rangements connected with the eg mental transport

Colon l T & Kennedy 2nd Punjab Ca a rj

No other I think than the quartermaster who at present actually 18 50

Council J Blar vo Com-ma din lat Ben bay Lancers Lieutenant Colonel C La Fouche Commandant Poons Horse,

The quartermaster of a regiment and his staff are invariably told off for that spec al luty If a transport corps on the principles recommended were organized I think it ould be unnecessary to detail a reg mental officer to look after the baggage animals. Such no teons of the transport corps as we e attached to reg ments should be under their own officers and

should not be interfered will a matters of interior economy though they would of course be suboid atte to the officer commanding the reg

ment as regards the special purpose for which they were attached to his regiment

L cat. Col. J. H. P. Maltalinson Comma d ng 3rd Sand Herse. Ma or A.P. Palmer 9th Bengal

Carrhy

Certainly Fide answer 13

Colonel T Do an Communding

I consider that under the supervision of the quantum aster most of the duties ecold be eithe ently performed by a Native officer assisted by a small stuff of non commissioned office s and men

Colonel H S Obb rd Com insendant flot Nat re Infan sy Co onel E Danie de Command ang 40th Vat e Infart y

Yes the quartermaster

Colonel G W Fraser 30th & L

Yes on service but under the supervis on of the brigide transport officer who would have to prov de for casualt es &c

Loratement Co coel H Warsley Commanding th Nats e Infantry

Yes with a small staff sala y as remuneration for such duty Yes the quartermaster should be that offeer and on service be

L sutenant Colonel R. J. Walker Comma dant 1 th Nata e Infantry Legater unt Co on 1 B G Reggers 20th Pumps hat e Infa try should never be detached from the reguner tal transport Les the quantermaster is generally the ged with the regimental

transport

L'enferant-Colon 1 P.B. Acresso Com a d og 24th Pumpib Nati e Infant y

Yes In a Nat we reg ment at should be under the quartermaster as I believe as the case in the regiments of the Punjah Lorce which keep up

our ret is the case in it is regiments to be further out when any agreement of the carringe Of course he would be assisted by such a staff is the commanding officer might the first of the properties of the course of the case of the course of the case of the segmental framsport and sho ld record of once illonance was not the regimental framsport and sho ld record of once illonance for so doing les and I that the qua terminister should be that off cer as he could

L atemant Co onel G C Ro croft 35th Nat e Infantry

enter on the duties v tha Lno ledge of he requirements in the way of carrage &c As stants from the Nature grades should be given bim with some small staff allowance for the work

L utens t-Colonei H St. G Tucl. 41 t hat e I fantt late Supe utendent, Transport Trans 41st hat e Infautry

In time of peace it is ould not be necessary to leep up reg mental ear age, as exervil ing that is required could be sent up either by railway or bullbed tan In time of var when each regiment has received its regimental carriage, a regimental officer should certainly be put in charge of it, with the good non commissioned officers to not, under him. This regimental financial discussion different carrylaing regarding the efficiency of the curring and anything be may require and necessor enters from the officer appointed superintendent of his division of the irrasport from The regimental intamport officers should be allowed He 80 a month extra pay and rations for his bows, and the one commissioned officers such Re 15 a menth in addition to their 13 and Fren ritions

Majte Sr B P Brombend 46th Native Is for try Yes, certainly (see previous answer, 13) He should know the language well

Major A C R Crooksbank Communications 32nd Papacers No other officer is needed but the quitermaster who from time immensaril has been the transport officer. In a British regiment are wants no certs restance, brings sufficient briedly, but it his Native army be should have the assistance of a Natice officer as Native quitermister and a quitermaster brilder. In the 33rd we created these symptoments and right well they worked. To detect my other officer is merely to take away a combitant officer past at the time he is most wanted.

Major P I' Ba croft dila Gordkian I , le answer 12

Colored II Be ergon Commund
Yes, and thrups is in this force under the regimental quartermaster, assented by a Nativo officer (Nativo quartermaster) and non communicated officers and mea as staff

Landson - Colonel & J. Boswell Commanding and S.Li. Most certainly There should be a transport officer on the staff of each regument

I enternal Class F T Bastbridge 4th S Lis I chance nower for a British regement, but no Native regument I that he quartementer can easily look their the regiment it interport. But in war time, when the transport is increased and the duty se beary, there should undersheld by one officer with a howyledge of transport duty and also of the tennocular thick latter very execution? Attacked to each regiment and department in charge of the transport only

Major & G Ross 1st Silks

Yes there should be In a Native infantry corps the quartermaster suffices

Gelorel A Jenkino Communicati 2nd Madres Native Infantry I think the quartermaster should be charged with the regumental transport

Xes, and I think the quartermaster generally coes take charge

Colonel W. A. G. b. Commandia. 25th Madras Native Infantry Colonel S. Edwarder Command my 2nd Bombor Native Infantry

Yes the quartermoster, in the absence of an officer qualified under the conditions given in the previous insider

Colonel W Bannerura 4th Bombry II fles

Yes, thus duty devolves on the quartermaster

Yes, the quartermaster

of the carriage on the bne of much or in the held

Color of H B Tames Commanding 19th Bombay but we infantry
Colored J To chrother Cres manding 2º d Bombay Asia o Infantry

les, most decidedly. But with the present pracity of European officers to Native regiments one cannot be spared

Loodenent Colonel O V Tanner Command ng 20ti Bombay h 1 Colonel J I Willes Commissary Gertrai Burcal The quartermister, assisted by a Native officer

Colonel R. A. Moore Activity Communicating General Modern As before stated, there will not, I concerns, be any transport with a regiment

I contournt Coloud M., W. W. Houghby Act og Comm surty General Bombay It does not seem necessary, if a commissariat officer is attached to each regiment

Senerd Housiny

In time of war optunity and in time of ponce via in cases where follocomes on other transport as pived in regiment the charge. See relies to questions No. 7 (g) and 13 of this paper. But to ensure the sources of the requested transport expects, the commontage officer made to high responsible for, and all rules must be presently interested in the condition, and the effectives of the number and exposuring conflicted to the charge of the regiment, and nothing about of such correlation will present last form the temponative use of carriage and recurrence to the time to replica countries or maning that have become values from overloading, pagedes, or other smaller presentable causes

Colonel T II Sider Deputy Communicacy General Rengal All regimental transport should be under a selected officer and a detail of troops told off to aid him in care and distribution of animals

Colonel M. J. Brander Official ag Deputy Commissory General Colontia. Certainh. An officer from each regiment should be struct off all regimental daty for this important service—one who has qualified in transport, and he should draw a staff pay of Rs 100 plus horse allowance Gelonel J Keer Deputy Com missary General Lower Circle, Beneral

On the part of the regiment to see to its own interests there should certainly be some one. His work should be to see that the full number of cumels, &c , are supplied, that they are serviceable and that the commissainst sergeant and agent properly distribute them. This has httherto been done by the quartermester ud medical officer, but as they are well occupied with other worl in officer especially appointed for this purpose would be an advantage, especially if he possess a knowledge of the vernacular It would be well to gate him a special allowing for this, but the curringe, &c , should still remain under the commission it represented by, if a Puropean regiment, a non-commissioned officer and a Native agent, or, if a Native regiment, a Native agent

Col. G. S. Muchean Dy Comy Geal late in Con m searint charge Khyber and Auram Lorces

Yes , but under the orders of the head of the transport department

Colonel R Q. Manager up Dy Asst Comy Genl Kauptee Lt-Col J \ Hunt, Dy Asst, Comy Genl Bengal

Certainly as the Natives otherwise never know whom to look to but it should be one who understands them

Major M & Rowlandson Dar Count Acets Bombay

Yes, such officer might transact all business in connection with carriage now performed by the countermasters This duty is the special province of the quartermaster

Major W Lucklardt Deputy issustant Commissary Gener I

Assistant Umballa

Ats, I recommend this measure very strongly. This officer should on all occasions of troops moving be made to keep the rolls and see to proments feed, &c. He should be further responsible that the author 14ed loads are not exceeded, which I submit to be a matter of the greatest importance, and oute beyond the control of commissairst officers in the field

Capta n T F Hobday Dy Asst. Commissary Gentral Kandabar

Yes, a code of transport rules should be drawn up, and it should be made put of the examination for promotion and for entrance to the staff

J H B Hallen Esq General Superintendent of Hor e Breeding Operations

Yes an officer of the station or corps to which transport numals may be attached should be always told off to assist in caring for the feeding, management, &c , of the animals, and thus kurn the duties of a transport officer

How would you propose to ensure a thorough knowledge of the amount of transport available for hije or purchase within each division or distinct, and of the time estimated to collect it?

Leutenant-General Sr D M Stewart v.c.p Commit dang South em Afghanston Pald Force

District officers ought to collect and compile statistical records of this nature, which might be periodically revised. Such officers would prob manure, a men mignt up petrotrenty revises. Such others would pros-ably be the best judges of the time required to collect the transport available in their districts. In point of frest this is done now, I believe These reports might be cheeked by military officers deputed to obtain information by recommunication in the course of duty.

Legionant General C T Cham crism C 81 late Commanding Ondh Dayiston,

If the local regiments which I have recommended for adoption (answer 7, paper A) were approved, it would be a part of the duty of the commander of the local buttalion to leep humself informed upon the capabilities of the district in respect of carriage through his reserve men

at their homes A system of registration of carts and animals kept for hire could easily be smetioned by law, and the spaces we seemed us that the military and military and military and the will get clow hadras and patterns might include all such information in their reports and diamet as also the numbes of earls and bullocks used for agreealtard purposes.

At fast there would be a good deal of general barring all ones the country from approhension of a

new tax but a proclamation (or purnament) by the district officer and his personal pull reace, would speedily allay the suspecion and when owners came to find that they were not interfered with they would accept the order to register

The time estimated to collect it must depend very much upon the ultimate destination and the position of the district chief town. As a rule, I suppose the whole available resources could be collect. ed in a week, but there might be a great strain upon forage

Louiseaut General W. T. H. ghes the Communiting Sulumb Davi tion

The executive officers attached to divisions and bugades should keep Are execute omeer strategie to the respect and digrates gloud keep a cagh distract and village. By personal mestigation in the secret localities they would from time to time satisfy themselves of the contents. reciness of these registers, and in prepring them they should always have the assistance of the civil authorities

These registers should be handed over on rehef to the relieving officers

(1097) Appendix v

L enfranti General J Forbes Communicating Muser Divis on

officers

Major Cent A. W. Unentire C.B. Combg. Hyd. S. ibs diarr I orce Major-General R. O. Br. ght. C.B. Commanding Microt. Division By periodical returns from the civil anthorities

By requiring the different commissioners and deputy commissioners to and in periodical returns containing the information

The transport officer should obtain this information through the civil

Major General II R. Browne Communding Surger District.

The officers of the quarter-master general a department and station staff officers should obtain this information from the distinct and officers, and record it in a tabulated form

Printed forms might be furnished annually to the civil officers for e purpose

Mayor Goal J W Schoo der CE Comig A Bern Bo obay Army Bright or General G Barnows Quarter Master General Bombry

By communicating with the chief civil officer or political agent of a Native State

Broade General G Barrase,

The event and political officers could furnish this information

Organical States of Saleston dipoles obtaining returns from event and processing coded Date its

Millerities of amount and lind of earnings in the distinct little early.

Bogolar Generi T I Herry,

The information might be obtained from the eval unthersises in the quarter-awater generals of chainsons on distincts unless a transport department is formed, he has a would be an important part of als duties. In the canad distincts of the Pumph a regarder as legal of the number a valid by the eval withborthes for the collection of the group dime, and the same system much be valued by reach of the group dime, and the same system much be valued by the rand other canad.

Colonel J A. Trifer on ve,

The commissarve officers and chief transport officer of each division or distinct should have no difficulty in citizating all the neces my information from the tural officers of the distinct.

Colonel H K Burne GB Secretary to the Ge remment of India Military Department. This should be the dirty of the officers of the quarter master generals and commissionable printends at the herd quarter of each command, when ne communeation with sead officer and a first level and outlier should called the necessari information, sinch also lid be regularly legit up and periodevilly forwarded for the mit mark on of the he also of their despretanests and of the Communication in Clot if and Government.

Colonei J Macdonald Scenetary to Gort, of Bombay M by Dept Colonel A H Murray Deputy Ab tast Georal Poyal Artiflety in India

Information on this subject ought to be in the position of the officers of the quarte master generals department employed in the several districts of the const.

I imagine the impossible done and ascertanced through the civil

Colonel D Standen Ass tank Adj tost General British Berma

Divis on

I margine the "to be jour come run exercision con one case and enter and polece A question, corrected return might to rendered, a may be might to rendered, a may be might to rendered, a may be might to rendered, a may be might to rendered, and the second and could be seen at a glance.

Collectors of enterties or other could officers much to empand to forward percolatedly to the different multius valuant experience and for forward percolatedly to the different multius valuant experience for forward percolatedly to the different multius valuant experience for forward percolated with the second of transport are valuable for time or parchase, and of the 13 proximates trust with out these ten contractions.

I entenant-Colonel A G T Hopp Dej ty Quarter Master-General Bombay The end of would use to concern.

The end officer of the district might furnish to the military commander a monthly return of trusport as al-like for line stating the time estimated to collect it.

The amount unailable for purchase could be ascertumed whenever any likelihood occurred of such a urchase being necessary

L'entenant Colonel H A L'tile Offic atong Deputy Assistant Quar ter Muster-General The distinct extl officers is not be object to furn it quarterly to the principal commission to their of the contained for the general officer's information, a return showing the anness of the owners of cartrage, the description of car raged (e) are in presented of their is identified, and its distance in males from the principal main vs. 11 nm in the comment of Such information is supposed to be furnished not to the comment of Such information is supposed to be furnished not to the commissional department that it is emplored usual vs. 12 nm in the less, being generally incorrect. All currage should be legally hidde to be pres of

Mayor A A A K alock Dep by Assistant Quarter Muster General With the reastures of the evid authorities it should be received what the explainties of the country up. In the first place the inhibit units should be encouraged to voluntarily place their amounts at the

depost of Government when required

Should a sufficient number not be forthcome; in this i 13, which is required mist, of course be
impressed. The a wileble number himse been discovered, a selection should be made of those best
suited for transport service to the extent require!

suited for transport evertice to the extent require.

Those chosen should be brinded and registered, and the owners should receive a small annual fee, parable as long as the annual renamed in a serviceable condition.

He animals should be inspected annually by a competent selected officer and in ease of its laring become unfit for work it shall be again blanded with a different mark and the annual fee down tune?

An male thus retained for Government service should if possible be occasionally called in and

excessed with troops a fur rate being paid for their while so employed.

We and drivers could accompany the rannals at two till be so much it is better and inviers who
proved amenable to dise pit and generally behaved well might receive cert finites entil ng it em to a
tirding amenal allowence even when not employed. It is solves that it would always be off subject amenals and there attendants together whine po able as in that case the amenals would have not
highly to be a cill cred for. When it was sone known where the cattle were it would be very easy to
calculate how long it would take to collect them.

L cu cuant-Colonel R Blundel 8 d Hus a s The comm ssar at resource book f carefully kept would show the amount of transport a a lable. The commissar at should all o furnish estimates of the time required to collect it.

Lentement-Colonel R S Cl land 3 h Loucers Leutemant Co onel Lo d R D Kerr Commanding 16th Hussars By taking a cens sof each horse camel mule early &c after the Trench system

It a proluble that the civil officers have at least an approximate

Ker Commanding 10th Menurs

Amendedge of the detail it not a process similar in nature to it each

mg venerus of popul-tion void afford a tolerably accounts that me ch
district it is once to the not the district of forms round vision much
decrease of cattle males cause cause and the comment of the movement and
decrease of cattle males cause cause for the Amendedge of the movement and

Tables showing these strains an an apparent form should be kept by such tabular and one or thereof such as it regular stated periods to be extered into a simulation in passession of the officer in charge of the data the who would find all from the forms a telement of all any lable carriage in its district to the given now of the province for information of Correstment. If in the neighborhood of a multirary dat at the same larmoration wow be the by in a place to the officer commanding that of a non-

case to us our giver not of the portune has months our overcomment. If it do neglegorized out a military dist of san har informat on we lid be by his a support of the effect command age that is san unitary dist of san har informat on we lid be proved to the control of the con

L cute ant Co onel J C. Le Quesne 12 h Royal Lancers L entenant-Co onel G Luck Commanding 15 h Houss a

By compar son Visit several villages endervour to number their population and their cattle on this strike an average.

There ought to be no difficulty in getting this information. This civil author tes if worth anything o gitt surely to know the cap bil

Major J W Chap in 8th Hus

tites of their own particular dist ets

Ti s information could easily be collected by the collector of each district

Contain. I & S. Machenz e, 9th Lancers I would suggest that all owners of carts ho see bulled's &c mean district be registered allowing the number of carts and man is belonging to each man whether for in a coldew ruse the record to be checked a streety will all intentions of increase and decrease at ted. To estimate the met me and district collect I would suggest after the results of the record of the top of the collect I would suggest after the record of the top of the record of the

Co on 1 J A Ruddell 12sth Reg ment. By means of period cal returns to offeer community grow the chief of adult or tes.

The eval authorities can give all this information. In communication with them trusport officers she lid keep up a transport map show up

La utenant Colonel T Ro land Commanding 1 5th Fusikers L cutemant-Co onel M MacGreper 1 18th Foot.

what each village can say a in the w y of can age

By making the en loffcers in the sge of a strats send in period all
reports of the amount of transport a a full is of him of turn use the
their date cits and of the time estimated to be upited to collect
and lolding them responsible that the number service it a fur for theming

L entenant-Colonel A Templeman Commanding 1 21st Pas I era when required

By charging collectors imagistrates or other evil servants with an occurate registration the coff period cally vittin the relistatets

Lectront Coloud J S Hand

As p oviled for in anse r to question 8 resisted by the evil offer specially of the distinct Consider the information in ght be obtained by the receive depart

Less ensuit Co on CB Knowl s Commanding 6 t Reg ment

ment

Through the comm sornat and civil a tio it ex unless a regain transport service was organized til in through that lepartment

Lass examt Clonel G H Pa ker 9 nd H g ila ders Majo: P Stephya 4th Battal on Rell Brugade.

By a system of monthly reports from the collectors of each district stating the amount of it isport are lable and the time it would take to collect it at the head-quarters of the brigade or district.

Mapo F S Terry 1st Buttalion Soth Lung a Own Borderers I would recommend that the err I officers of d strets slouid obtant the information and furnish the same to thris onal and d strict general officers as well as to Government

From the every station staff officer should obtain and talkate that info mater I el concerne t elf ever p tion of the com tri basing

been uproprofell some stat on

The commission at le prime the transport to like obtain the form at an iron come all officers of divisions. The commission will be priment ntelf oulletter the same a formation but in addition ould be its on source of special information of the light through its contractors wh haced only be come cated to the quarter matter general of the arms

The latter return could be used enther non-check to the other or no an additional re ource a times of eme geney

Major Hugh P Pearson 19th Foot

This would be the dity of the sens trum pot office of end command asseted by the end authorates of the dit of Nothing would be en se than to establish a sample sy tem of reast at on fir every comel brokery male pony or other me as of tran pot Te owners in glt be g en a very small retaining fee in return for lich themselves by tours of scattering the cattle or can age to Go orn ment when required frameport off ers of command to ld at fy themselves by tours of scattering that the error for their the re

tuning fee had lingle s for hong linfred don.

The estimation of the time to collect only giansport oullen very sample problem when the amount of earning and it locality vero

recorded.

M yor J H Campbel Sind Reg ment

I enanot suggest my wa aless the mag tailes or callans in charge of the districts are required to furnish the information

Maio J D Dyson Laune 34th Reg m at

Answered a No 8

Majr W H. J Cla Le 12nd E ghisuders

The knowledge of the time at of transport and lible for lare and purebse vilum ea h dissor an dat i hould be poured by the head traspoteffee of the dat et od is on ra≪ed ly the ol departmen t

The whole of the farmatio collected on the head should be mule I mids of the principal traisport office. He time es a steal to collect it should also be equitable to the office.

Co nel C R O From Com mand of Royal A thery Moorad D

Surely the heatledge son meeting e offe of the quiter master generals department two short the country of not tishe ld be speedily put the e

Maye Berise Hab i us M7 ta Scere a to H s Grace ti Go versor on Madras to H s Grace the

Agencal incoledge of the max mom on o i of ira port of all so ts a stable for he me he il nor hi fo all ry muches could be obtained through the cite en conficer. It also ere opened and mandal that a manes and see e es of the cart and critic owners and they ear leed to regist riter to k at

nder could be go en by t e oth et of the time et rel to collect the carrage for comployment is any grown is dealer if it did not be only it is not required to one conditions and the state of the so pro the disk a bung more or less plano meet according to the time of year and the sor cultural to so the tree is a courge more or new parameter accounting to use the coperation and of pragmentors and will be interfered. It has cope any and it is like all rings in coperations and will be difficult to get early or rest to in a children y could non except to go on a short more. I get produce in one as the first seat their news to left present it can be accessify the get event that discults. For the one of leave a standard title, it is that the seat of the short little is a little of the contraction cond to decept to go on the same and legared in the late of the same instruction restricts a more selection of the same selection of Bit even when the currage required has been oftened either by so to to my contitiere. Institutes of the to be demanded by the ones of crisoria the and more ad m tres

into temperate on the netter of the top to elect ancest by the other of the first of the first f communication on the subject by the military dipartment with the ellipsy and on is to be deprecated

APPENDIX C

Extract from the Proceedings of the Government of Madras in the Revenue Department,- Vo 588, dated Hh March 1879

Read the following ---

Dated Madras, 21th February 1879

Memorandum by the Military Secretary to His Grace the Governor of Madris

The following memorandum by His Gree the Governor is forwarded to the Secretary to Govern ment, Revenue Department for communication to the Board of Revenue, with a request that the reports, as therem suggested, should be called for

Memorandum by His Grace the Governor of Madras

Cart line for thoops on the much is costly to Government, and a heavy burthen to those

whose earts at taken for long distances

2 Some enquines I have cushely made lead me to think that the long distances to which
they are taken as one of the main causes of distillate to the trial and of excessive charge, and that is not to be wondered at when it is recollected, for instance, that carts engaged at friebinopoly are hable to be taken to Secunderabad. It would be much the same as taking a Sussex cart to Aberdeen or Inverness

3 Is it not possible that if onis were never talen (core-pt in cases of absolute necessity) beyond the first village of the adjoining district or territory (without the full and willing consent of the owners), and the rice of bue and an externate for fielder were fixed percelerally by the revenue. officers for other 1 year or as months, the villages distilled to the care beautier(1) is not removed to the care of the care

two days, or is tal en more than a day s gourney from home

- S Rates for this service over and those those defined by the Legislature are fixed at quarter sessons where magnitudes from all parts of a county meet. Probably, the nervest approach to this in the previousny would be the theislater of each table agreeing. Why could not such a system be induced here? Would it not be a boun to the system.
- 6 According to militury regulations, the collectors are only to be called upon to obtain entrage either by contract or, fraining that by impressment, when the regumental authorities and the commis-
- sarrat are unable to procure what is necessary
 7 The rules for the guidance of collectors when impressment is resorted to, are laid down in standing orders of the Board of Revenue, but they contain no limit as to the rates of here to be
- 8 Such a limit is, however, laid down by Act of Parliament for Great Britain, being a normal rate of mileige fixed annually by the Mutany Act to which a further rate is idded not exceeding a spontie sum which is fixed by the justices at general sessions, as much and above and varies with price of forage at the newest mark of town. A faither is essenble compensation is granted when the hung distance defined by the Act to exceeded.

9. In determining rates for the districts of the presidency, both the mileage and the varying forage or gi un rate, the circumstances of each district must is now ordered be kept in view. The rates might be laid down for the routes commonly used by troops both outwards and inwards from the point of departure according to the set of the endurary carrying traffic. The further compensation should be given if a cart is tal on beyond the limit of the agreement over the border of the district or

the presidency

10 A schedule of the rates should be periodically published in the district gazettes. Such notification may probably facilitate the military authorities obtaining carryage with at the intervention. of the collector, as it will then he known that there is no appeal from the fixed rates, and some cart owners may be ready to undertake a gob on those terms. In default of such voluntary hirang, it would be necessary to full back on the collector's register of casts, which answers to the justices' list in England 11

The obligation in the matter accepted by the general public at home is provided for in clauses 68, 69, 70, 71 of the Mutin, Act, which are annexed. It seems to me possible that similar obliga-

tions may fauly be unposed here

12 It is desired that the Boird of Resonue be moved to call upon collectors to report whether such management might not lessen the inconvenience to the 13 of sensed by the necessary use of their earts, and whether it might not, in fact, render them ready more chieffully to assist the marches of troops

The reports to be submitted to Government with the Board's remarks

Order thereon by the Government of Madras

Ordered, that the above papers be forwarded to the Board of Revinue for consideration and report

Major W. W Wurdock Com Artifler

By making a law making it necessary for even one lecture a critior animals to register them in their own villages. The headman of a village might produce his regreter or give in the necessary information once a pear to the tabal or district authorities

The time it would take to collect might be approximately much by the ervil authorities I should say.

Mayor T W Hardwar Com mand as E 3rd Royal Art Hery

By Leeping up a careful register, and having a quarterly muster at certain places in each district

Major the How'ble A. Storret Commanding 1 C Royal Hore Art flury

Through the assistance of the district transport officer and eval offieer, who should been registers

Major C E Nairge Royal Horse Artillery Major P PiteG Galleson Royal

Artiller

I funey the enal officers already sent in returns of their districts which give the information required, if not they might be asked to do so they could easily a certuin See answer 10 also

Mayor W H Ashle Rayal Artif

By having for one array corps in the Punjab and one division in Madras and Bomber sufficient permanent transport officers to give one per brigade on mobilization stationed in the districts. Camps of exererse would afford them excellent means of practice

This could be done by district superintendents in communication with departmental and civil authorities A complete regreter should be kept in each district

Capts a G C. Royly, 13-8th Royal Artillers

To every two or three divisions and districts of the urmy I would Royal Artillery appoint a commerce write officer of some years' standing, with the title of acquire the I nowledge in question. He should be required to trivel all over the country as used to

hun, and by personal observation is well as by questioning ascertain what its resources were. He should that, and my person in deservation is well so yellow and the second with the second with the second second in the second second in the second

send in one occasionally-say once in six months or so

send in one eccasionally—asy once in ast months of the There sho like an officer it army head queriers specially charged with the duty of eramining and directing these reports. As soon as one of these inspectans and completely extrained one district, he should be called on to send in a full import of its resources—how and in whit time they could be best utilized &c After doing one district he should be sent to another, where with the restrict ones curren ac Accer comig one descrete as some to seek we assume, after with the **extre-of his predecessor's reports, he might supplement his pro-lessors of admenses and correct his mis-takes. I timb that if this system were curred out thoroughly for a few yours the resources of the country would be very well I nown, but the inf mation received should be very carefully digreted, so as to give the maximum of useful knowledge in the minimum space

Colonel O Walkinson 2nd Bengai

Excepting through the civil authorizes, I do not know how a thorough I nowledge of each division or district cambilities could be alitmeed

Chlonel H. Gong 12th Bengal Ca. alra

Orde supernicadesis of transport sho bit in conjunction - th the gird rathouses be thoroughly acquainted with the curringes supply and resonaces of the districts within their circle registers and rolls

Cupta n M G Gerard 2nd Central ludas Home

should be kept, and constant inspections made for vericulion By appointing regimental officers under orders of the commandant of the nearest davision transport train, giving travelling allowances to-a three months tour in winter season, through distants, to inspect and

register unionals Most of this could be most advantageously confided to reliable Native officers

Br gull er General C J Golley Commonts of Paragal-Front er Force

Title Colonel Nicholetts' memorandum * this should be furnished through the divisional transport officer

Colonel T G Lennedy 2nd P m job Cavalry

The district officer only our supply this information

I think it would be well to try and make the supply of camels at all events less of a hardship than it undoubtedly is, if it e unot be made actually popular among towners They are, as far as I know the only men in his who are seized to service and in consideration of this they should I think he better treated than they are

I believe the majority of owners keep their camele for live and not for their or in trade purposes If this is so, sufficient inducements should prove attractive and I think if the following terms would induce out ers to register their names in their districts as willing to supply so many caucks on demand that Government would still be a gruner

A remission of all, their tolls, taxes or other duties, they may be halle to Besides the fixed here for their curiels, free rations for them-ches, free giann and green fodder or bloon when grazing is insufficient

Warm clothing for themselves and their camels if necessary

And cump equipage found them

In return for which they should bear the loss by death of any of their camels so as to ensure their continued care for them, compensation only being allowed for carnels killed or disabled by the enemy

L cultum Colonel C LaTenche, Commandant Poons Horse

This Friendedge should be obtained by the cultures in elarge of dis tricts alon their turn would look to the memberdars (A state arrese trates) of the various talulas The amount of currage available would probably be a rurable quantity, but still in me opin on the resources of the country, so far as onts and be blocks are concerned the energines. I think that war is one of those momentons occusions which justify the Covernment pressing everige taking over effective that owners are liberally treated The resources of the country must in my opinion always be the fo addition for any scheme for the provision of the general transport at the permanent base of operations even supposent that a good system of reserve compatible with the financial requirements of the budget, could be but upon

Local rant Colonel J F P Malcolmson Commanding 3rd Smil

My proposal in answer 7 (a) would give some portion of this know ledge and if this were supplemented by a list lept by the environment of each it tree through his Puropean and Native subordinates, corrected and checked at in certain times, I think the arrangement would furnish the required information

Major A. P. Palmer, Sth. Bengal Chreley

By a register of all annual to baggage animals and attendants in each district being propored by circle superintendents of transport, who would furnish staff off eers of divisions districts, and stations with sich information is would enable the officer commanding to requisition the local civil authorities to the extent known to be mailable at the various seasons of the jear

Colonel J Doran Commanding 197th Payab Nat ve Infantry Colonel H S Obland Command ant the Native Lifantry

Through the and officers of the drawen or district, and by periodical collections of the different animals

Colonel P Dendrodge Command ing 40th Featur Infanter

By having district regiments and maling the British officers respons this for such knowledge. It is a class trusting to on I officers or the quarter master general s department

Colonel G W Frasir 39th Nata e Infantry

The collector of each district could keep a register of such carriage as would be available on an emergency By instituting a system of registering and numbering or marking

all unmals or vehicles throughout the country that would be available for transport service in the event of war These registers should be prepared originally by the could authorities and sent to the officer of the fransport department attached to the staff of the general officer commanding the division or district giving the

owners of all animals or veh cles so registered a small returning fee to ensure their being available and in good condition whenever their sorvices were required. All animals and vehicles should be inspected periodically, say once a month but not all are an a given date by an officer of the transport department of the division or district in which it was stationed

L catemant Colonel II Worsley, Commandum 7th Native Infantry

By registration, through the police and each officers, as suggested an answer 8 All animals and carriage should be hable to impressment

by Government at fixed rates unless exempted by taxation If a man values a horse or a carnel at more than the Government rates let him pay a small tax for exemption. This would involve no great burdship, as the tax would fall cheefs on the rech

Locatement Colonel R J Waller Communicant 17th Not o L fa try

He civil authorities ought to be able to furnish this information, at would be very difficult for the military to do so

I sutcensi C losel R i Rogers 20th Pe 3ab Astive Infantry Lumberant Colonel F B Norman

By insisting on the quarter master general's department maling and keeping themselves acquainted with it Officers of the commission to can do this in communication with the

Comman h g 24th Punyab Asta e Inf utes

cavil authorities of the districts In a former answer I have proposed that four superintendents of transport should be appointed to the different provinces, such is one for

Leutmant-Cofonel H St. G Tucker 41st Vat re Infa tey late S per otes les t, framport Tram 41st Native Infantry

Bergal, one for the North-West, one for the Punyab and one for Assun The duties of these offeres would be to secri an from the differe A collectors of districts information as to the capibilities of each district to furnish carriage stating of what description, approximate number, and about the time it would take to collect the heat mans of obtaining it whether by here or by parel see the resources of the time to outset. He has incurs of corruming its waster or here or by private the resource of the country, and whether it is a good granty district for maints, for, and at part exceptings to the director largong him will informed be even then said us and every change that must the pince in their pown mass. For instance the superintendant of the linearly province, could make be superintendant of the linearly province, could make be superintendant of the linearly province, could make be superintendant to the linearly province, could make be superintendant to the cattern but the province of the linear province, and make the cattern but the province of the linear province could make be superintendant to the cattern but the cattern wetther he should be trueding of no collecting even turn cases around a nor 15 wers, you are now wetther he should be trueding of no collecting even turnstrain or of all and may clear at the semantial collumn even go and I toy up the director informed as to ins movements. The superacticalist of the born! West should have collect a limited and of a sunder his edges and off it is periodically of the born! West should have Could in limited and of a sunder his edges and if is a joint infection of the Purph the whole of the Purph and I not there. The superintendent of Assem the wide, of the

Erstern Frontier These officers on recurring the reports from the different collicious and other

d str et office s will for vard them to the d rector with any remark, or agreest one they deem adverable The directo can then make out a full report and lave at printed na pamphlet form for the inform ation of the quate master general and to cald all as leared able book for reference at any moment

hay a BP Bromb at the Officers communal ug sixt one lo ld communactic with the collect had be any a communactic with the collect and the any accordance to confirm the collect and the points ray call. In this the party rail cyll a forettle sake of uniform twil cold aggret the similar than the collect and the collection of the fill and for some control the collection of t

q a to maste gene 1 of ea h d is on sie il collect and tabulate all the informatio ga ned and send oo es of it to the Qua te I ster General's Off ce t S mla

Me o a ! of car age a a lable the

Dat of (Stat on)

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2	Pack A. i « nais»	Elephants Camels Mul a Pen a Punk bulls ku							
3	VEV	Kal 1 s							

(Sy at ro of c laftee)

M o A C W Crookshaml Com mandang Sond P not

Comm sunat officers slould be more closely under general office a than they now are as alt ough this suitended the mother and into partice until general officers are gon as much control on the department in cantonments as thy are a thought of the structed to

would be the data of the chief commes ar at officer to keep the gene at mfo mel on the s b ect of err age. He would be ed are of all the Government entitle and inder the gene also der a range for risf il employment. He would make this busines to law of e er begga, ann i anic i n fieds c - a knowledge ensiy got if onglife eviluation to and s ssa is he would know her life tamped the courses of is better on be tapped ani a latties will produce and all this is lid be summarated and ecorded so as to elable a general to provide inform ton to Government on this point by return is see or to act on it I meelf

L h C on J T Ho w i Com nand no 2nd Sold Infon ve

By nal ng t compulso y ader overe penaltics for all owner of cart mules ad camels to registe the n in sal collecto sites (tal s i) ad stact eg ste compled fom tlese being kept nile distref offices showing distance from I and quarte soud probable time of collection

I uterant Co nel F T Bun b dg 4 b 5 kbs

The circle or din conditions part officers also limited their duty

w I he a stance of tee in the ortes to be perfectly actual the ten entered of it the albit car gelod for I remain prebase notices each lastres of the release and alo how long to could tale to collect tatany g en po at

AGP 1t Slb Isí an

Obt with all on ledge on thy from d tret officers and my e flem register and Irne by pot officer to cheed and travel to the person pomisters to Only the officer mist is ill ges and Irnov all il e headme He co la be in the trans; o t corps

Conlit Jern Command

I would a great that the communerar at effects of district. Se she likely a thing the required information as to the a stable transport un flet dist ets

ComiWiG Comedant the Madra Na offur

I slig lightly on the collectors of districts could do this with care in a very short time

Co 18.Fl d Community of the market of the contract of the cont

It should be one of the maps tant dites of the committant and transfer to Birto mike him in require sted will the amount of transfer to labelefor I recorpored to a light state that to submit a model of the complete that the submit a model of the complete that the submit a model of the complete that cal po is on the s bject to the head of his department

W Bann rman 4 h Bom bay Ral 1

Cu il others could give this information

(1102)

I e tenna Colonel C LaTonche, Commardant Poena Horea

This promplege should be obtained by the critimes in charge of districts, but not there true moral bods to the incredibilities (Notice mags tritics) of the visions the true of the count of currency criticis and the probably be a veryind quantity. The common time corrected, a common of the country, so far as earls and solided a concentration of the country, which is not one of those monotones concentration possible for Gerenment pressing entrage that may be concentrated by the country of the count

Leentenant-Colonel 7 R P Malcolmson Communiting 3rd Sand Horse

My proporal in inside; 7 (a) would give some portion of this know ledge, and if this were supplemented in a last kept by the card diffuof each district this ough his linear and Native subscriptions control ed and checked at uncertain times, I think the arrangement would farmisk the required information.

Mayor A. P. Palmer, 9th Bengal

B) a registe of all whible brigange amoult and attendunts in each datate; being prepared by circle superintendents of transport, who would furnish stuff officers of divisions, districtes and extenses with information as would crashle the officer communiting to requestion the book and authorities to the extent known to be markelled at the vaness seasons of the year.

Colored J Borny Commanding 27th Punjab Antice Infantry Colonel H S. Obhard Command aut 4sts Native Infantry Through the civil officers of the division or district, and by periodical collections of the different minuals

Colonel P Dandr dge Command ing 40th Native Infantry By leving distinct regiments and maling the British officers respectively to such I nowledge. It is welces trusting to civil officers or the quester master general scoperitoret.

The collector of each distinct could keep a register of such carriage.

Colouel G W Imser, 39th Native Infunity as would be available on an emergency

By instituting a system of registering and numbering or northing all animals or relicies throughout the country that would be available.

for thanspot servee in the elected wat. These registers should be reported originally by the civil antiporties; and sent to the offices of the inasport department streeds to the stiff of the general office commending the chance of a shorter, turning the connerts of all numris or vehicles to registered a moral setum grie to easier them being available and in good conditions whenever there serves were required. All numris and vehicles should be impected percolated, by one one amount but not always on a green dute, by an officer of the trumpast department of the division or distinct in which it was statemed.

I seutement-Colonel H Worsley, Communiting 7th Native Infantry By registration, through the police and civil officers, as suggested in answer 8. All animals and entringe should be hable to impressment by Government at fixed rates, unless exempted by traction

If a min values a horse or a camel at more than the Government rates, let him pay a small tax for exemption. This would involve no great burdship as the tax would fall chiefly on the nek

Liceismant Colonel R. J. Wall er Communidant 17th Nature Infantry I. entenant Colonel B. G. Rogers 20th Pat Inh. Nature Infantry The civil authorities ought to be able to formsh this information, it would be very difficult for the military to do so

By insisting on the quarter master general's department making

L estenant-Colonell' B Aorman Communing 24th Panjab Antive Infantry and I coping themselves acquainted with it

Officers of the commissariat can do this in communication with the
civil authorities of the districts

Leutenant Colonel H St G J. cker 41st N t v I I fa try late Saper tendent, fransport frun 41st Natuse Infantry In a former unwer I have proposed that four superintendents of trumsport should be appointed to the different produces, such as one for Bengal, one for the North West, one for the Pumph and one for Assun He duties of these others would be to assetiam from the different

to furnish curries, stating of what described, procurate number, and dust the time it small table collect the best manus of obturning the whether his her only parties, the recovers of the country and whether it is a good gramp district for number, and dust the time it small country and whether it is a good gramp district for number, and dust the time it small country and whether it is a good gramp district for number, but grainers, the recovers of the country and whether is a good gramp district for manife, ke, and report excepting to district for exception of angel that my thing like at their provinces. For instance, if a superinducine of the Bengal province could make his held quarters in whatever sixtum be thought most caused for less work, and in the cold worther he is could be invaling about collecting over information needed, and respecting all his most able column covering and legang the director informed as to his momenta. This superinducine is the North West cloud his not built and Bundell and also under his charge and the superinducine of the Fungib the whole of the Pungib and Fonther The superintendent of Assam the whole of the Testern Troutter. These others on receiving the reports from the different collectors and other

distinct officers will forward them to the director with any remarks or engage tops they deem advisable. The director cut them which out a full uppert and have a practed an appainted form for the informations of the quarter master general, and it would always be wallable book for reference at any moment

Naper S r B P Bromberd 40th Knine Infa ity Officers commanding statums should communette vith the collectors, or other chard cut of sizes of their d strict who could give them reserve instruction on all the points required. To freshints manny and reply and for the size of uniformity, I would suggest the a buniting to then of a form to be filled up. I give not mixed upon the committee.

no repry same are used so the filled in J form on the filled in J form one which appears the a beaming and to contain all that is no consent. At regalar quarterly interest, the fill 1 from should be returned to them for revisor, distriction and corrections where necessary. The depthy sensitive quarter marks general of each drawn o should collect and violative all the information gamed, and eard one so of it to the Gaugies Market Gonzale Collect.

licroom idea; of corrupt anatiaste in the D strict (Station)						(Date)			
	Deveraption of Corrage		AMORAT PROCESSES 12			Usual rates of recetair	COULD ANY BE PUR CRASCO		Remarks.
No			Ti ree days notice	A weeks	Amenth s notice	later a the	How many	At bent what proce	lohen (al.)
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(S guature of eur l'offices)

Mayor i C W Crookshank Com mondeng 32nd Patterra Commissants officers should be more closely under general officers than they now are, as although this is intended, it exams to be extract this presides until general officers are given as much control over the department in contemporals as they are in the field. Thus storted it

misrand on the sal yet of earl see the fairly of the chart commessaries we may be a use men a war stretch of misrand on the sal yet of earl see. He wind have charge of all the Government cuttle and under the general sorders a range for its fail opelyrensel. He will make it has beeness to lone of each largegen annual and earl in the chartnet,—I nowindage cuts) got through the earl authorities can be residently be well know how will be transport resources of insu detacted on the traped, and what they will produce, and if this would be summarized and recorded so are to enable a general to movel in them than to Government on on the possible polarum ware, of one can it humself.

I entens at Colonel I I Poswell Connosmin g 2nd bul h Infinity By making it compulsory under sovere penalties for all owners of curis, males and similar prepater thom in sub-collectorates (tabists), a distinct register compiled from the a-b-ing kept in the distinct offices, showing distance from herd quinters and probable time of collection

I estement Colonel F T Bu a brodge 4th Salks The ende or divisional transport officers should make it their dity, with it is assistance of the end authorities, to be perfectly acquainted with the resources of all the viriable currings both for him and pinches in the several districts of their endes, and also how long it would take to collect it at any given point

M per A G Ress let Silb Infentry Obtain this I nowledge quietly from district officers and male them register as in Frince. Appears officer to check and trivial about as pension paymasters do. Only this officer must virtually ges and know all the headmen. He could be in the transport corps.

Colonel 1 Jealure Commund and 11 Vanitus Lad a Infantry I would suggest that the commerciant officers of districts, &c, chould obtain all the required information as to the wealable transport in their districts

Colo el W. A. G. b. Communitant 2,134 Modern Nature Infants I should that the collectors of districts could do this with case in a very short time

Colonel 9 Phermies Commont rag 2: d Hemler Latine I famus It should be one of the important duties of the commissariat and times not office to make himself acquained with the amount of trinspoet an alable for here or purchase an last district, and to submit periodcal reports on the only of to the bead of his department.

Colonel W. Hannerman. 4th Benn. bay Rufter Coul efficers could grae this information

Colonel H. H. James Command our 10th Bombuy Native Infantry.

Colonel J Fairbrother, Com tryolog 22nd Bumbay Native

Colonel J I Willes Com-missary General Bengal,

This could only be done in communication with the civil authorities of each district I don't see how multiary officers are to obtain the information independently

I know of no means except to make the district civil offices care fully collect and report the required information

I cannot suggest any rehable plan After all my expensione I am firmly convinced that such information can never be obtained. The to the collectors and others are not prepared on reliable data. Supposage they need, need to true course to the collectors and others are not prepared on reliable data. Supposage they need, is it resemble to suppose that currange in time of peace would be furthermore in time of war? Does not ever ormer. know the tricks that owners resort to, even to avoid being sent with a regiment in ordinary relief? Zoov use trans sure course feets to, even to voor being sent with a regiment in ordinary relet? In time of voor ones would feeten, also sond, injure their bellock, destry there can't side old they cook, in fact, to would not use a case that coursed some fee yeus use when of proported the groung security of camels all over the North Westen Promess My report went to that Government, and in course of time in attempt was made to refute my statement and it was stated there was a man within a few imles of Agri ready and withing to supply 20 000 camels at, I think, a month's notice I asked for the mins name, as it was not given. In time it was communicated to me, and he was found to be a man who had been discharged from the department, because as a chowdury, he could not supply even a hundred camels in a month! Such is a sample of information usually furnished of the resources of a district. There was a time however, twenty or thirty years ago, when the commissary general could have found men able to produce 20,000 or 30,000 camels with ichable attendants for work in India without my difficulty, but these men have died out, and so have the camels Yet, when I noticed this fact in my annual report of 1876-77, I was told that the Government looked to me to keep up the camel establishment and supply of camels, which was first being exhausted owing to the rathways beving indirectly caused the decrara-by carrying what the cimels formerly did. The late Viceroy Loid Northbrook, whilst on one occasion discussing the subject of decrease of camels and the cause, admitted that such must be the result of the rulways curying all the merchandise that camels formerly curied. It was immediately afterwards I wrote my letter referred to, and received the reply quoted. The Government changed its views meanwhile, but my opinion as to decrease was proved only too time during the late was

Colonel R A Moore Acting Commissary General Madras

This information should be furnished by the civil authorities, and might be included in the agricultural statisties prepaied by collectors for the information of Government This information could only be obtained through the civil or political officers of the several districts, and even then it is very doubtful if

Lentenant Colonel M. Willoughby Acting Commission General, Bombay

General, Braubay to would be thorough. Reports of the nature has a though the boundary but there accuracy, if subjected to the actual test of trail, is uncertain, as the transport of the country. shifts from place to place in accordance with the season and demand, for its use, and wheeled transport sours incomprise to piece is access user that our season we carried for its set, and noted the property and bulleds at certains seasons we very largely engaged in agreefund operations. Striments, but as to extent of transport obtainable and time within which it can be calleded, can be but approximate at the best. The can'd and political unthernies should be called on to scorring the expibilities of their districts, and report to the general officers at fixed centres, and they should correct their reports once every five years

Colonel T H Sibley Deputy Commissary General Bengal

In the Punjab complete lists of the resources have, I believe, been prepared in Mulitary Secretary's Office, and such statements should be in every district office, so that the responsibility of each village to furnish the quota should be fixed by authority

Colonel M J Brander Office ating Deputy Commissary Gen eral, Calcutta.

The statistics on this subject are, or should be, in every commisauat office in the Bengal presidency obtained from the civil officers of the several districts. But as what may be accurate one year as to number of carts camels, mules, bullocks, hevers, &c , may not be so a year or two lates, I consider that every year a fresh report on this head should be obtained from district officers

Colonel J Keer Deputy Com-musary General Lower Circles

This information can only be obtained through the deputy comcomment Actor Joyany Actor

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meanay General Lower Citals,

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certain number of carts camels, &c , in the Government service, is proposed in answer to question No I of this puper, would render a certain quantity of carriage always at ulable within above 25 days' notice

Col G S Mathena Dy Comy Goal late in Comst change of the Khyber and Kurum Porces

resources," and has the required information in his office

Colonel R Q Manuscring tepaty Assistant Commissary Deputy Assistant General, Kampice

I have seen a return sent in by a deputy commissioner showing the number and quantity of carriage available in each village. The time taken to collect it would greatly depend upon the distance it had to

Deery commissarint officer in charge of a district keeps a "book of

Laratemani Colonel J V II and Deputy Assistant Commussary General, Bengul.

Preentive commissariat officers are required to obtain this informaation as regards carriage for here from the civil officers of the district and to record it. The same steps can be taken in regard to baggage ammals purchasable

Major W. Lucklandi Deputy Assistant Commissary General, Umballa

It would be the duty of the officers permanently appointed to the transport department to make themselves thoroughly acquainted with the resources of the district under their direction, and if not engaged with the truning of the regimental officers and men, they should be employed to collect and record all information relative to the amount

Captain T. F. Hoblay Deputy Assistant Commissory General Randabar

and description of transport available, &e This can only be done by earl officers. Commissants officers are now so tied to the desk, that it is quite impossible for them to get leave or trivel about the district they can glean information from their Nutive subordinates, but it is not so reliable as that procurable from district officers and as the collection of transport would rest

J R B Hallen Esq General Superintendent Horse Breeding Operations

with the civil rathorities, they are the best authority on these matters The director and assistant directors of the trunsport trun would, ce operating with district officers, obtain this information.

16 Could not a system of regimental transport be substituted with advantage for the present moveable column system?

Lacatemant-General Ser D K Stewart K CB Commands E Southern Afghan stan Field Force,

The regimental trusport system is suitable and necessity in some cases eg on the Punyab frontier but it would be westeful and extra-nagant if applied to the arm; generally —It would, however, be advan-tageous to place all transport critic under the charge of troops in more ment By placing this responsibility on the troops, officers and men would learn everything connected with the care and feeding of cattle, and the experience thus gamed in peace would be of inestimable value

Lan tenent General C T Cham berla 0 s t luis Communicang Guille Division

Yes It could be introduced as the thin end of the wedge of a new transport system, but when troops move suddenly, the carriage of one regiment would have to be lent to complete the earnings of that under orders, as sufficient could not be Lept up (without extra expense) for all

Lacabearat-General W.T. Hogles QD. Communding S. rhuid D. v. som L submitat Constal J Forbes Command og Kines Decessor.

The system suggested in my answer to question No 7 would be a substitute for that of moverble column I consider that a system of regimental transport should be combined.

Major General A. W. Mac nitre c.u. Command ag Hydreabod Sub a duarg Porce

with, not substituted for, the present moveside column system The regumental system would tend to hmit the use of the transport to shietly regumental purposes, whereas under the present system the whole may be applied to the use of the force in general

Major General R. O Be ght, C.B Command g Morret Dress on

In all frontier districts near the hills it might, I think, with advantage, provided the energy was entirely make. Were camels employed, they would have to go long distances for grazing, and would not be more quickly procurable than by the present contract system

Major Graceal H. R. Browns Contant d ng Sauger District

No, I do not think so I am no advocate for regimental transport The cost would not be lessened, for the same amount of transport must be munitamed

The trumport would cease to be generally available, and there would be mere-cod difficulties in its maintenance and subsistence I am year doubtful of the advantage of maintaining transport at all for moveable columns, with the single exception of elephants, which can not be lared

Major General J. W. Selme ler C.n. Comma li g Korthern Dr. s on Bombay Army

I have already expressed an opinion that the reasons for moveable columns no longer exist in this president. The completion of the Strict railway to Nussecrabed in 1650 would seem to me to render their maintenance with curringe still more unnecessary. I do not see the object now of a system of regimental transport, except for frontier forces, a here troops are likely to be called out at a moment's notice

Bogo her General C Born Quarter-Master General, Bembay

No the present system of field columns provides for only a very small force as each station Yes, but to be under trusport supervision

Brievier-General F G Kemp ster, Commanding Coled District Br gador General T J Murray 6.0 Mositon Brigade,

Yes, as in the Punjab force, where actually required, but a small regimental nucleus would, in my opinion, be sufficient for general adop-

tion

(1106)

Colonel J A Triler GB TC, Commanding ith Goorkhas

Colonel H K Burns on Score tary to Government of India Mile tary Descriment Cettunly in single corps stations, where every regiment should have its transport leady to hand. In large stations I think the moreable column system would answer. It would be cheaper, I should think

Centernly, the system of regimental currage has been found to answer admirably as shown in the expenses of the recent operations with regard to regiments of the Panyab Drentae I oree It ensures the mobility of regiments and the proper care and existed

of the unimals

The loss of than sport in the Punjah force was inagimizant as companed with that amongst the hired and purchased sounds

But the question of the munitaming of regimental transport generully is one of cost, on which information is being prepared, and will doubtless be furnished to the Commission

No. The corresponded he alle

Colonel J Macdenald Scarciary to Government, Bombsy, M by Dept Colonel A. H. Marryy Deputy Adjutant-General Royal Artiflery on their

late, M is Dept Marry Deputy Regal Artillary being in possession of corps in ultible for use and learning its functions is advantageous in the lightest digice, or accustoming the corps to pre-

advant/see) in tame of n vr.

Noto in the legitaming of a campung, especially during the first feer
days in a young coups, how informs and toubleware as the trusport,
much the difference in a vectoria crosp scenational to mrealing and
campunging, and see the improvement after a month on ill, and it
must be appressed to the most securely have required as a change and the
proceed system, and the establishment of one which will recussion the
soldness to its use and preprue them for sea race.

pare in peace time for whit must be undertaken (otherwise under die

Colonel D Stander Assistant Adjutant General British Burms Division I think that the present moverable column system, always provided that it has a cognitude at the beardy to more out for manufactor source, as to be pretented to a system of purely regressed to the pretent of the system of purely regressed to the system of the system o

Legiterint-Colonel A G T Hogg Deputy Quarter Master General Boulday I do not than a system of regimental transport could be substituted with advantage for the present more able column system

Transport in regument'd charge could, of course, be milized for the movement of the regiment, but it would not be available equally with the f amenoil transport for station work, or ordinary movement of transport.

I entenant Colonel H. A. L tile Official og Deputy Assistant Quarter Master-General of twops. The mass while column services re-regiments to certain statutes only, not to all, not thus more title columns, except of varys few statutes, may longer required. I do not thank the regimental system of transport mass longer required. I do not thank the regimental system of transport mass and the column to the column that the respect to the column to the state of the column that the column that factors is column to the column that factors in our collect active factors in our collect active factors in our collect active factors in our collect active factors in our collections of the regimental and notices without, I believe, my increase in editional collections of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the general distinct of the command, and under the dates of the general distinct classes.

Major A A A Ri dash Depity Assistant Quarter Vaster General Yes, I have aheady recommended the adoption of a regimental system

Ceptain M. J. K. og Risman Deputy Assistant Quarter Master General Most estumly it could, by means of an organization similar to what obtains in the Punjab Frontic Loice Men with points or mules to be entertained (cubisted) at the rate of—

80 or 100 for each regiment, British infantity,
50 " carality,
20 " , battery, relallery,

20 ", hattery, artillery,
40 ", legiment, Native infantry,
to be attached to and under the sole care of the regiments or batteries

Also a proportion of camels—
60 to each regiment, Butish infantry,

50 to " " " cavaley, 20 to " butters utility, 50 to " regument, Native infantry,

some of which would be trained to dringht

These remais would be in charge of the commerciant department for facting pay and work provided that they are regularly fold off to crys and brought in to be particle and build not marched out it in a relange order preade cone in soil, was so consure their being divags efficient, as well as to practise nion and numbes in their regular work.

[Appendix IV

The pomes or miles should be all compped, exactly as laid down by the Smila Committee of 1878 79, a selected low being transed to harness. They should remain the property of the men, whose or times to result in all double he rowshed with over, fined and water but it state.

10/16 My, a secretar new county transect to matters. They would include the projectly of the men, whomever this is possible and should be provided with gear, food was water by the State. The men should receive pay at the rate of Rs a a month resurg to Rs 7, one edected man at Rs 10 being over all. One moches to every 40 animals (or under), to be increased to two on service.

One nalbund to each corps, mercased to two on service One driver to every two nameds

Each man to have one suit of clothes yourly, consisting of-

I long skuted jumper, I pur tronse

hoth of stout Livia drill,

1 tarban,
1 priz puttees

1 turban, 1 pur puttees,
1 anthees, 1 lettler executed belt
One letther cross wand belt and one short sword for even man to be kept in the regimental integrance

One feature cross some less and use seats severa to even man to be soft in the regiment in regiment in the most in continuents the men and amounts would do such regimental work. It is viring probably, grun for horses carrying away stable manure &c, &r, and would fir filter be employed by the communities on station work, as required.

From high cuts for each segment and two fix each battery, which, with horses &c, advoked to miss or proise, sould be kept in charge of the comments, to be used as required for entry for largest greater of station graviti of wall bodes of men moning by rul, &c and the contraving night to helped by the tenhals cuts the maje side drawn by these saturals, but the global the only contraving or the station of regularly once a week argumentally on a regular light marking order parade so us to stant of officery, men and annuals thermage them work as well as seeing that every thing were imposer order.

A certain number of animals would always earry puel als on the line of march

A negament going on service would dwarps this its pouses or miles with it by roll, and ing up the full complement required from the large male trains, or on requisition by the commissanat it or near the base of operations

Regiments marshing in course of relief would take their nomals with them as part of their transport but when moving in rebir by trun, they would have them behind, to be taken over by the relieving regiment

On all murching order purishes, a certain magent of aminimation would always be curried so it will be necessary for each regiment to brie in its circ a fixed number of double sluggs either of letther or grouns, as recommended by the Simir Committee of 1879 Such slungs to term purt of the regimental equapments

Mule I apwahs for entrenching tools medical stores and veterinary stores &c, should also be with each regiment, as well as serviceable boxes for earnage of signalling stores

Of course, special rules would be required for certain strings on the north-eastern frontier, Gradier, Buildelt, and others also in many places elaphants would be 1 gri in place of crunels. B it I than I that this periodic is essued and worthy of a trul subject, of course to such modifictions in numbers of a units and ourts as may seem it, and would have the effect of reducing consi-

dendly the number of camels kept up by the commuserret Loonomy in transport is hardly consistent with efficiency, but refractions can be made in other dentiments

To temat-Colonel R. Bismitell, I think it could, but I think it would be much more coully. If the and limited it is a transfer or the property of the state of th

I outcomet-Colonal R S Cisland
Yes, I think a regimental system would be preferable. To do thus, drivers and horses should be added to the present extablishment

L estemand (colone Lead R D

I thank not

There formund (g 10th Hensers

In more value column m piem uppears to be a good one in theory.

The substitution for it of regimented principles to colon a common serpears to the public, estimate the estimilation of juris for each requirement
in piece convenient to the linest, the erection of sectable buildings of
attendants and supervisors, and other stems impossible to enumerate

Unless the management of the trunsport remuned in the hands of the trunsport department, much expense would some ease from regumental develops from the ordinary pattern of ger autobased from theories of individual communities, either on plea of economy, that it, or appearance Whereas such in tites of detail would be last strunged generally by departmental committees.

I entenne Colo el J C Lo Les (ne biclore saul) Quesuo 12tl Royal Laucers

Loriemant-Oxford G Ind. Yes, and, as regards envelop regiments, be far more efficient and few exposure than the present system—sade memoran lunn* proving by referred to

Mayor J W Chaples sets Alas

I thank that more all e columns should rather be supplemented with
regimental transport instead of entirely doing with with them, by this
means they could be much reduced.

Opins 7 A S Medicace 6th As with very great advantage a regiment, would be far more more and a regiment of the first continuance as in Figure 3 or the strength of Buttach as view in India vs increment to 40 ratio and 16th the Lingdish ware of this buttact it would make be 25 circus for a remarked transport and page 5, tables reseed with Arms Oricelus, 1st Dox mile.

1877

Colonel J & Raddell, 1 25th Regment.

Lesternt Colonel T Rowland Comm ud og 1 5th bush ers.

Locuterrat Colonel M Mac Gregor 1 18th Foot.

L cutenant-Colonel G F Walker

Consusandu e 1 12th Foot. Loutenant Colonel D Warre Communing 21ith (Prince of Wales Ou i) Regioent

I se sterrat-Colonel G W P get Comma idii g 84th Reg ment

Lieutenant-Colonel I S Rapid_a Com nardu g 44th Retunent

L enternat-Colonel J W Haghes 64th Reg ment

Lestenant Colonel C H Parl er 92nd Haghla dars

Major P Stephen 4th Battal on Refe Brigade

Major P S Terry 1st Buttahon 25th Aug's O to Borderers

I am of opinion that this might be done

cantonments?

I don't think so What would regiments do with the currige in

A system of regimental transport would be very contement to move a small force rapidly to suppress a local disturbance. To make it suffi centify expansive to undetake mote extensive operations would I si old think, be very costly. The system, therefore, would be advuttegen at a regiment on the frontier but not to the army generally

I have no doubt such a system could be carried out, but doubt rem much whether it would tend to occuromy

The utilization of regimental transport, when regiments are not netually on the much the building of critic lines, the entertuning of extra stuff and followers, &e, &e —these all present difficulties and point to heavy expense. In how far this extra expense thus incorred nould be reduced by peranting regiments to much in toles instead of moring by rula vr, is a question for further consideration. Doubtes also mereused efficiency in the troops would result from route muching being the general practice

No, not with economy during perce. Regimental transfort is seldom required, whilst under the moverble column system the curring. is available generally for station mulitary purposes as required

I would prefer the moveable column system with the whole of its transport under one or more of the regimental transport officers. On service or on a march, I am decidedly in layer of portions of the trueport being hunded over to each regimental transport officer

I think not A regiment would become involved in great difficulties in feeding and managing the cattle and attendants, though no doubt it could be done if necessary

I think not, except for Native regiments

It could but against it is the question of expense in perce time. It would therefore probably be better to hand over the moveable column transport to regiments in succession for training, making them for the time being responsible for the carriage of their supplies

les, I think so If a regiment were called upon to proceed on netice service, it would indent for its entringe on the commissional transport corps. It would

meet a complete a regimental section of peace establishment and additional emirge to the extent necessary from other sources, the two together being under the regimental transport officer.
On notice being given of the probable strength of a held column about to be formed, the breefor of transport belonging to the quarter master general's department for transport would indent on the commission to department for transport for the formed sections of transport of the given number of regiments and departments and ordinal transport for the excess according to complete in service order

with fourteen days' provisions and reserve enringe The commission of transport department would furnish this, talling credit for the direct issues to

regiments

Additional transport officers would be drawn from regiments not required for service The commis areat department would it the same time undent on its own transport department for its own requirements of transport (regimental sections not being available) thrown into such organize ation as time permits and requirements necessitate

The sab commissanist department for transport would, on the other hand, indent on the commis

same for its supplies of fresh year and dreaght manule.

For large contents for supplies of hered and purchased curryge would, I thun, be better left in
the hands of the commissarrie to Indus and purchased curryge would, I thun, be better left in
the hands of the commissarrie to Indus as industrial. Mator Hogh P Perrson 12th Post. The scheme I advocate would be a combination of both, since in

phees the moreable column currings as it now stands is the sole In all other respects the moreable column system would remain intact charge of the regiment As it is, even, it is in admirable institution, but in administering it there is soom for improvement and I hope I have so shown

Vajor I K. Campbell 23rd. Reguler I think a system of regimental transport would be advantageously

Dept. a system or regiments trustyers would be assumptioned to an advantage of the state of the

Major I D Dresse Laure Ifil Fe ment

I am strongly in fiver of the substitution, which, whicher or not directly more profitable farmer lly, indirectly would be an enormous gun, in all reling to officers and men the means of becoming administed

with the habits, requirements and treatment necessary for the animals, and for their attendants, with the ears required for the fitting of the braness &c, recent experience leaving clearly shown the cost to the country of the presulting Jaconacco on these points

Magne W. H. J. Clerke, 72nd Highlanders

Les, it could, as stated by me in question 19. A certain amount of the regiment it trusport should always be introduct to the regiments in perce time under the change of an other: assisted by non commissioned officess, say sufficient for the purpose of moving the tents, briggings, &c, of the movedale column

Major G S White, 92ad Highlanders

I think it would be an improvement in efficiency, but would involve considerably increased expenditure

Cupta n H VPL Hotel o 1 14th (Prince of Wales O i) Regiment

A complete truspert establement for every corps would be more expense than the moveable column system. But a wall estal helment of annuals might be constantly entertuned which could be used for local re-purements; instructional purposes, t.e., and could essity be added to in case of local distributiones, markins, a un-

Colonel C. R. O. Fran. Comron of g. Royal Artillers Meetal D : 0 I sentement Colonel L. Letchen Boral Artillers

I do not see my advantage to be derived from the change

I certainly think it would be a great improvement if it could hative cavely regiments seem now to be able to more at very short notice. I behave they always have their own carriage present with themselves?

Major Berise Holari n.A. Apy regressed all seriem is fo be advocated, and every corps ought to all two generator fo list forces the large undependence in transport is to a certain point. But a "limit state in the contract of Major and the contract of M

I cannot however see how the system can be applied to British troops economically

be drawn or too many non commissioned officers and men will be taken from the runks, already on most occasions too much thinned I think so But there would be the difficulty of finding constant

Major H C. Jeves Command g I let Royal Art flory

employment for it

No. not entuely

Majar F T H was Co omeading C t Rocal Horse Artillery Majes T V Harrings Comina id ug 1 3rd Rocal Artillery Victor the Hon ile A Stewart

I do not think so It would not be so available for general purposes

In my opinion "yes," as previousl, attempted to be detailed

Cond" I C Roral Horse Art Hary Major C F \a mc R H A

The is answered in No 7. But the best as tem of trinsport of all would be the regimental sistent as pretiad already in frontier butteres of willier. I am had not propose to because of the ceptor se, but the plan is technel in No 7 proposes that cach regiment shall always him a nectrum amount of corning, without parts.

Mayor P FinG Gallany Ro al Artillar I ti mk not, without some merease of expense

Capta n.G. C Bayly 13 8th Royal Artiflery

As such a charge would, I thank add to the expense and dum nosi the editence of the transport lept up up since, and give a great deal of totable, especially when troops move il by raif or by ser. (B'B - B') when the such a such a such a such a such a such a such a such a such a such a such a such as a fix were in charge of the consequence of 1 at the field regimental transport as densities, it is can there if a corps be halted for more than too or three data is furnished all be a valid below for general purposes. These regiment il establishments up or to me to sold to exquest purpose. These regiment il establishments upon the not sold to exquest purposes. These regiment il establishments upon the not sold to exquest without delays to define our, if il excest is a page portunate even of the sold of the office of the such as the such

I ent. E. C. Wate, B.A. An 4 Hanny Ma nta a Butter Prayel Fro the Force Yes, entirely, the trunsport of all the regiments being available for those forming the moverable column in cases of emergency

Colonel G W H. mean 2n'l Ben gal Cavairr I believe a regimental transport system, such as prevails in the frontier regiments would be preferred to a movemble column but I suppose it would be more evening.

Colonel II Congl Command og 12th Be gol Cavalry As it has been decaded to employ regimental transport in time of was as being far p decade it would be necessary in time of pieces on one joy the same system as for its practical by which could be easily done at most stations by exercising it in such manner during every drill season.

Capta n. M. C. Certirl. 2011 Hogs nest Central In ha Hurse

al fee at would be decidedly a handstood of on all owns as the men could be those of he metrocted in the loading and management of baggage and minutes

gage not namels

Antive carrier, especially, both from the nature of their work, and it a fret of all Nature ranks
being already provided with poin carringe should have the assetion so completed (which can be done at

a trifling cost) as nould enable a regiment to march at an hour's notice, and for a prolonged company with further help to move independently of the trinsport tiain

Taking baggage, &c, on Cabul scale, which is ample on where for a strength of 500 and acum ing it is so manifestly wrong to have two descriptions of critinge in one regiment, entailing squate and it is a manuscry wong to trive and occupations of criticism on the regiment, outsing equals aggrege grants, &..., that pomes (i.e., nules,) above, tathoso only should be employed as find that, though 12s are required to complete the regiment for service, by authorizing largage powers of English officers, and a monthly expenditure of Rs 107, it could march and keep the full for one weeks without further assistance

Of the 125 pomes required, 25 are for authorized baggage of European officers, mes, off ce. &c. and are pud for and 100 have to be provided free by Government

list—By author zing two of three points as part of an English officer's equipment, no yadde carriage being then allowed and giving them passage by rul with a few for mess and office, they should be then maintained privately, and as one of the authorized grass cutties would lead them on manh instead of increasing followers 1 per officer would be saved to the transport trun

2nd -The following public currings kept up always would enable a regiment to take and keep the field in an emergency for a few weeks -

Po nes Hospital 6 Guaid tent Quartermister's store 9 Spire minimition, 25 lounds, rear rink only 5 Veteranry surgeon's and armourer's stores 3 Cooking pots 3 20 = Rs 80Cacolets, replicing \ 3 Dandies and \ Mules 5 = Rs 2721 Kahars

Total monthly expenditure if maintained permanently =Rs 107 Of the 80 power required to complete service entrage, 35 are for reserve ammunition, and of these 20 (100 rounds for front runk) can well be spried to elsewhere suggested, cultures for the whole regiment being useless

This would leave 60 to be handed over with saddles and lo spees by the transport train intended for reduction after the war, they must remun the property of, and be maintained by, Government, otherwise they could be supported regumentally on a permanent allowance of Rs 210. They would be thus detailed, including above

noting of built abturness their many			Rs
Hospital (10 per cent.)			37
100 rounds tear runk only			20
Quarterm ister's stores			6
Volunteer sergeauts and armourers			4
Gand teats			2
Cooking pots			6
Spare			ъ
		Total	50

If 3 per cent ercolet mules are to be maintained on service, Government would further only have to provide 12 mules and excelets, 12 dravers, 12 dandles, 77 (or better 95) I share to complete equipment for longest war

5rd —A Government pony should be put in one of each sower's syee, who should receive free rations and elothing in retain, thereby entiting it regiment to carry six days' rations complete. These could easily be managed by a regiment, and as Government must metitably, in any case, give aid in money or kind to these spees in a campaign, they will, by saving the pay and rations of 85 trues or truin drivers by above arrangement, be combiled to do so without loss to themselves

The above weights are calculated at about two mounds per pony, who, as a matter of feet, more frequently carry over three. I have weighed loads of 400 lbs that had been carried several days with

So that for an emergency 10 days' rations could be taken As instance of the necessity of completing earnings, were this regiment suddenly ordered into the As instunce of the necessity of completing carriage, were the regiment assistantly entered in the factor or Konon chiracts, though all Latin run is can first instantly, and easily weight aday, cancils for hospital, spire immunition, and doobes and kalvus for sack, &c., could only be present from Grat into or Agr., 130 or 420 mins. They would, therefore, have to start in hallful breakers, for which much of country as idealized; immassable, and which thest array all brules are all the contracts of the contract of the country of

towards Indore by train. At starting we should have one doole and four kahars for sick and wounted of entu

tire regiment Dstimate monthly cost for pony—	R«	Α	P
Grain 1 seer per d em, at 20 seers = Re 1	, i	8	0
One-fourth of sice at his 5	1	4	0
Pack-saddle	0	4	0
Chanda average of eight years' service	0	8	Ü
Shoeng	0	2	0
Medicine and sundries	0	6	0
Total	1	0	0

(1111)		[Appendix IV
Estimate monthly cost of casolet mule-	Rs A	Þ
Grun 2½ cers per diem	4 0	-
		-
Half syce on peace foot ng only	8 0	0
Cacolets	0 6	0
S oe ng	0 4	В
Chanda (ten years work)	10	0
Medicine and sundries	0 6	0
Total	9 0	0
Estimate monthly cost of rations carned on second pony-		
• • • • • • • • • • • • • • • • • • • •		ib•
Two horses		16
To a pan es		4
Two sowars and one stee		6
Share of public follo vers &c 165 men la males 80 pon e	*** =	o 4

150 = 6 number of days supply

In proof of e.p. I has of tations as baggage wa male—will on ordered to your XI year solman. That fore baggage posts for all x p type as crues, posse Ris 3 | neergy and by 11 l l e.g. to the four bo verage costs must lived to not be round for 3 of an other Will 0 e.g. to the four bo verage costs must lived to not be round for 3 of and like of 17 lbs two of these must he is while 6 of to man odds from fourna to Dholp but teen 0 2 not for the No. 10 of the XI by the contract of 2 not for the No. 10 of the XI by the Contract of 2 not for the No. 10 of the XI by the Contract of 2 not for the No. 10 of the XI by the Contract of 2 not for the XI by the Contract of 2 not for the XI by

They are a marched leaded from Jhel m to easing mean Yowshera betweet 30th November and 4th December $_{20}^{20}=3^3$ males do by

And a n n June from camp Na 1 to Jhelum let v st 3rd and 11th noind ag "11o rs halt in Peshara at rate of $\frac{\pi}{2} = 0$ m les neluave of lait or .8 m les a day of actual travelling

Extra grum as of ourse guien on these marches

B 2 Ge cal C J G dby Command s_a Panyab Front er Force

I do not than! The carrage of every lagade or col ran smould be under the entre control of a trisport officer. Shold a egra tibe detacle a subordiante Lurapean o Nata e (for a Lurapean or Native corp.) should be a clarge of the carrage.

Da ly supply

°S 4

Colonel T G Femmely 2nd Pumpab Ca al y

It is also more expensive as entaing in contourned reprinte in disconveniently more numerous a table shinking for it on all often must be provined.

Coissed J B v T c Command no let lea b I more

L cuterent-Co nel L Touche Commandant P as H c

An experiment should be at once made with two regiments

A system of regiment it respect ment the light in this deal of the would be of great as stance to may me while column a stem but it loud are let it to be served at timbe a lept up on a refine thy ling a stile to such at two condensations and orthonoro for ord may regiment let uneached I am not let or a run all coast for regiments.

beging armag must for the more as a greater and the control of the more than the form of the more and the most of the more than the form of the more than the form of the more than the form of the more than the form of the more than the form of the more than the form of the more than the form of the more more than the first than the form of the more more than the form of the more more than the first than the form of the more more than the form of the more more than the more more than the form of the more more than the more more than the form of the more more than the more more than the form of the more more than the form of the more more than the more more than the more more than the more more than the more

occasion on which the services of my regiment have been required was the suppression of the decorties in the Decorn One detrehment muched at an hour's notice and covered one lumined mide the first forty hours I append a few extracts from long reports I have just received from Magain Daniell and Westmucott, Superintendents of Police, in command of visions parties - The Police Daniel and vesuments superincessens of concer, in common or visions parties—the reco-tance possess a very great advertage over other regiments. I have seen here in being supplied with ponveninge. The result is that they can more literally as soon as the horses can be suddled sed the lagginge packed on the points, and they can true of our ray country. On one occasion I marched with a detachment over one hundred miles in less than forty hours, but whenever we halted for a few hours the men's baggage was up and they were able to get tood for themselves and to male then horse and themselves as comfortable as they would be in their own lines within in hour of dismounting. Buthout this pony carriage, our movements would have been completely hampered in this country, where cavally may at any moment be called on to travel long distances."

The above is from a report by Major Daniell

Major Westmreett, commanding a flying column, writes as follows -

'I applied for Government mule currings for the infuntry, and when it was really tested against the baggage points, the latter had the best of it by hours". In describing some very land work the mea had in the pouring rain from 21th June to 3rd July 1879 over the Western Ghais, he ease, or have it me pounds can from Little me to the lay love were are vested to respect to the good of these cited come for the good message the form eighten to fifty feet, the ram was measured and sax multibas were crowed in heavy flood. The pomers were spin up within a few bours of the men the multi- arrange broke down altogether, three duel from characters and mont of foreign, and eightern out of thirty five went set?

ton End work of force, and egainer out of thirty in a west set "
Luchton on, discribing the end of this accrea well wareling, he shites," the whole of the mile
did not repain me for a well and their hald lift their tents behind, three mile died, and district
wow ents atch to Pooto "Out of Hirty has of the poones, some, I cannot give the exect number,
were but up with some locks, but all, with one exception, were hat to mired again on the 7th "Again,
"We have manded or as some as hundric and use in wet and day, our childs and through deep mile,

and pony carrage has never facked"

I can fully endorse from my own experience how serviceable pony entrage is when kept up on our system : c, with regurental syces to look after them in camp and to take charge of them on the much, and with the training they have for carrying loads during the time of perce. Furthermore, it is of great advantage having regimental spees to load after them, for these men get into habits of describing in camp, and its adveys to their ground interest on the march to here the pomes up in good time, which is not the case with exemises much mileters. I am strongly of opinion that cury Native cavity regimn in in the serves should have a town regime count carried complete at all times. I have only one thing more to addregarding part entrings, and that is that when committees are assembled to purchase points, many most valuable animals are rejected, because they do not come up to some ideal standard is regards shape, bone, and substance I can state most positively that many sich minutes are capable of performing astonishing feats in the war of endurance both is regards the amount of the leads they can carry and the distances they can go, and if jony carringe is ever used more extensively than it is at present it would be as well not to be too particular on these points Our men being under paid, quadion communders is often obliged to pies pomes that of in is appearances are concerned an most unpromising, and jet they do their work in the most astonishing manner

I entenant Colonel J II P Malcolanzon Communication 3rd Sand

Certainly A regiment with the slicketon transport system I have proposed would on being ordered to form part of a moveable column complete riself and would do away with the necessity of a movemble column as at present organized

Colorel J Dorin Commanding 27th I unjub Native Infaitry

ites, I consider a system, framed much as exists in the Punjab Frontier Force, might with advantage be substituted for the moveable column one.

Color of H S Obtar I Commandant 41st Native Infantry

I think a certain quantity of carriage should always be attached to regiments but that it should be kept in one place in the station and as at prevent iou a movemble column see reply ?

Colone I' Dandridge Command ing 10th Anti e Infantry

Yes, under the supervision of brigade transport officer.

Colm of G. W. Trauer, 39th Autire Infantry

Yes, I think such a system might be adopted with advantage in substitution of the present movemble column system, but in view to partly paying the cost of its leep, it might be let out on line in the viewity of the station at which the regiment was quartered, on condition of its being available within 21 or at most 48 hours' notice, and returned in good order and condition

I scatement Colonel H Warsley commanding 7th Notice Infantry

Undoubtedly! For with regimenful transport, troops could move on the very shortest notice to repress local disturbances. All a regiment requires for such purposes is pack transport for cool og utensils intreach ing tools, and receive ammunition for about two thirds of strength

If necessry, tests, began the continuous amount of the sense of the se can be independent of other curringe. And in two or three days local carriage would certainly be avulable of properly registered

When correspond is required in case of epidemics, we have always notice sufficient to enable us to represent the neighbourhood. In short, there evens to be no necessity for maintaining moveable columns on the present expensive scale.

Lienterrat-Colp el R. J. Wilker Commandar è 1"éh bat so infa stry

Only, I should say, at an mercased cost to Government

Le tront Coinel B G Popus

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Lacotenant Colonel F B Acrosan, Comma dang 24th Lunjah Antive Infantra and access on an emergency at shartest notice, which they cannot non do on the pre-many advantage a meant, I don't think so. But if officency and realmess to more it as hour a notice as meant, I think it would be advantageous to actual to all regiments seen up trust Shebun the system in fewer with the regiments of the Pauph Prometer Torce, but the

Lacutement Colonel H St G Tucier 41st Vat re Infantry inte Sujer ste dent Transport fra s sist N I carriege Lept up by these pregiments is endy sufficient, I behave, to move a wing highlit outpuped.

No This movestall column earnage is, for the most part, some distance coast from out meents graving. I behave a carl in amount is a high for station one, is with a bringing up from or to the rulevy station on carrying supplies from consequent department in regiments. This care content of the product of the product of the content of the rule moments.

menus I me un quite sussent un ce come una tre s'autra monant et con currrige o biach rough is de, qui un trech actanoment uniter the charge of a conductor or non commissioned e face undu. He criters of the superintendent. The non commissioned officer in charge would be obliged to i musts any carriege required on a station order.

Major Se B P Brombond 46th Matere Info try

Yes, will the greatest advantange, both as regards efficiency and econom; (See reply 3)

Mayer A C W Crobbinsh

I do not think so to distribute the prevent carriage among regrenced produce no preteral good and to provide regiments until even the worldest under a mount of entrange would be very expensive

The system is partially carried out in the Punjab Frontier Torce and no one can deny the efficiency caused thereby, but the cost is enounced.

emercing enters unersely, but the cost is enormous.

However, it would never be manifestable to keep the carriago under regumental charge and employ it departmentally there would be enables fraction. Better learn the emrings unto the department which uses it and best I more how to tall e care of it, to say nothing of the mechanisms. of scrittering

where were is not used from the late care or it, so any assuming or we reconcentrate of writteness. If when the care or it, so any assumed a legang their own caringe. No doubt may come unding different would like to have it is free use of a shelf Generalment within and on the pails account so keep as a regiment gets its quantum of carrier, which required, what more is smalled?

They is the proposed neuron seen to there are of it a length of least of a form the for the normalities, and the best way of secusioning the men to curring as to march the regiments, and not send them so much by thin.

Colonel II Busingto Commanding 4th S bi s

Yes, assuredly, as roughly suggested herein, and to the hencit of Government and the regiment. As already stated, I am not more of the more able column system

I enterant-Colo et J J Boswell Coma and g Z & S khe This is answered by No 7 I strongly advocate the regimental trunsport system be introduced

Lenten of Colonel I T Bain budge, 4th 5 kbs Certainly, and with great an unlarge to a certain extent but I think, for a regiment to keep up carriage enough for in including in ordinary rules, would be no unnecessary expense and I also think that the true-part key they aregiment should belong to the it may not service, so that it could be made of consensal some hore necessary.

Acquired marching in act arts related could always be supplied with full transport by fulling the carriage of other required marching in act arts related could always be supplied with full transport by fulling the carriage of other requirements of the brigade. If going on service, it would be fulled up from the transport of other requirements.

Major A G Hoss Ist Skh In

Les at each do done But I think it would be expensive
If it is done enhance for British officers and for lossest, who are
always left out, British officers especially

Colored W. A. G.b. Common dank 2.48 Medicas Autora Infantry As already stated, I have no experience of moreable columns but I can quite understand that in regimental charge it would be more brindly, and it is a be better i han care of The quartermaster could look after it

Colonel 5 Discoules Commanding 2nd Beming Aut to Infantry I do not quite understand this question. A column to be rendered moreable requires a certain amount of required, depart until and general transport, the first being in regamental charge, and the second

in charge of the commissionat and transport officer or both in charge of the latter, general or auxiliary transport being hired or parchased in the district as required

Colonel W Bannerman, 4th Bombsy Rifes

Not without menering additional expense. The field column carries is in constant use by the commissarity and if it were lying idle in regimental charge, other transport would have to be engaged by the commissariat department

Colonel H H Junes Command ing 10th Bombay Natice Infastry I think so, and it would be preferable

Colonel J Pairtretter Communiting 22nd Bombay Katao Infantry

I believe a system of regimental transport could be easily substituted for the present moveable column one and with advantage in some regiments where there was a man who understool it but in the absence of such, I ferr it would not be a great success. Perhaps this would natured in this most important duty of all mil tary men, namely, to be also to organize, transit take over of the carriage of a namy, and to subbe officers to the found more efficient or symptomic officers to organize, true and take over of the carriage of a namy, and to subbe officers to do this, I believe nothing would be, found more efficient or symptor than a ' biggage cause' on somewhat the same principles is Gussal

Sir C I Napier's Sind Corps

I think it would be preferable

Lt. Col O V Tunner Command ing 20th Bombay Nat to Infa try Colonel J I Willes, Commissary General Bengal

Any system is better than the present. But I cannot see how regi mental transport is to woil, because in time of peace there would be as object in keeping it up, as there would be no noik for it

Colosel B A Moore Acting Commissary General Madras

It would cost more, as each regiment in garrison, would require to have its share of the carriage, and more would have to to be kept up The regimental transport system has been found to work well on the

Lecutesiant Colonel M W Wil long) by Acting Comm stary Goneral Bombay

occasions of which I have any personal knowledge, and to be really efficient in war, should be introduced in practice in time of peace, but it would I think, he more suitable to the Native than to the Luropean army and it is evident that only a very small nucleus could be kept up, as the regiments would have no use for it, and except at the larger stations, there would not be transport duty to employ it On the whole I am in from of massing the field column curinge at ecentres, we proposed in replies to questions 2 and 7 of this paper, and placing it in chringe of spend officers, brinding the fold follows energies on whatever transport may be kept up it man statums, not regimented aftergree and supplying regiments with it insperies these latery that their dished which should then be enturely in regimental charge. If the eries we asset questions will use about ground on what the rate is the state of the stat which it can be located, lines for followers, &c , and the same questions would also, though in a smaller

Colonel T H Sabley Deputy Commussary-General, Bengal

degree, if the carriage is distributed into regimental charge When regressive on to it a frantism than should have their carries made over to them as on service, and be held responsible for it, on relief they could make it over to relieving regiment

Colonel M J Brander, Officent-ing Deputy Commissary General, Calcutta

I see no advantage in such a change. A certain amount of carriage, considered sufficient to enable a portion of the troops to move at a very short notice, is muntained it nearly ill stations, and can be utilized for general purposes, under the orders of the general commanding, more readily than now under the commissariat department

Colorel J Keer Deputy Com m ssary General, Lower Grele, Bengal

I infer that carriage is meant to be municianed perminently it stations for certain regiments or detachments and batteries as is now done for moverable columns. I cannot see the least advantage to be obtained by placing it under the different regiments, &c, and I fed sure it could not be done so economically as it is at present under the commissariat, nor do I think it would be so well managed

Colonel G S Muchean, Deputy Con mestry General late at Const clarge of the Khyber and Luram Perces

Not with advantage as to cost to the state and care of the cattle, and the necessity there would be for three or four cattle yards in a station

R. Q. Manwaring Assistant Commusiary Colonel R. Deputy Ass sian General Kamptee

Regimental transport maintimed would be costly, because the regimental authorities have nothing hardly for it to do when stationary, whereas the moveable column carriage makes a great saving by continu ally working

L cotenant Colonel J. W. Hu et, Deputy Assistant Commissary General, Bengal.

I think that such a system might be advantageous, and it separa tion of the transport from the commissariat is contemplated, the regi mental transport officer in biring the portion of carriage allotted to the regiment and in managing the same would gain great experience

Major W. Tuckhardt Deputy Aust Comy "Genl., Umballa

I do not think this measure would be advisable for the reason that transport would not be available for general purposes

, ,

Capta a P F Hobbar Dentr I dil

It! litm htle ent feters with Not regime t rlo his the Notice of is a limen till after landle j tip to ti strand btarl so the commence net trouble liter the charge of the commence thin then

THE Ha on P-q Con rel Sp n ndent of Ho e Leoning Open on

A reg mental sist m of transport a glit lete telm a f w corps defice it arts of ladir b t I am nelved to that the monter que deprine t salove recommended would in the and provem reats f elor e je jence has jro ed that the r gimes taley am often fail time of war

- 17 What would be the weight to be earned by a regiment of the man, or regiment of an or britter of artillers or company of suppress at present established strength for service in the plains of India and what would be if e amount of transport necessary under the undermentioned headings according to existing regulations on the following scale vi
 - Camp equipage, as laid down for field service in the plains

(2) Baggage ditto ditto

(3) Ammunition (service scale for all arms)

(1) Cooling utensils at the rate of 2 camels per battery and 1 per company

(a) Entirenching tools at the rate of 2 camels per regiment (b) Lood for four days for men not followers

(7) Giam for hoises for two days The transport should be of the kind used locally

Sick transport need not be entered

I see mont Gen al C T On abe la a cer l te Com mandra, Ondh Division 29 30 14 1 6 Campany of Suppore 6

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Car

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appe	HULL	ΤÅ	

Hajot General A. W. Macan tire, c. B. Commanding Hyder abad Subsidiury Force (1116)

unar many no mpo. Talke, and the amoust of transport necessar, in the softeneticaed healings necessary to senting tegritations.	of transport neces	Sand undan	the severat ar. the undermention	ms of the service sed headings accor	drng to evisting	tablished strong egulations	A For service	en the plai	Jus 0
			п	n	•	a	9	*	
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As a figh recompose the breath of the properties

Memorardum showing the established strength of corps, Se, so takes from the Quarterly Arm j Lot of 1579

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1 Battery of royal lone artiflery	6		1	2	150		13	5	1	ļ	13	p of
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1 Heavy , ed	8	-	1	:	83	-	7	2	В	171	\$	
1 Company of expernant miners	2	2	1		6	110		1	ļ	-		1

^{*} Includes one rolong market

Mayo General R. O. Braght, Tell information given on this question under all its headings in on commonding Mount Dun annexed retain

2alls of mought to be correct by the different branches of the army at meant enter leaded strongth for field arrows in the plant of Jahas, and a most and makes of treatment in the casting regulations on the stronger scale, and planter and an extension of treatment are not scaled in this administ Native Westweet breatment with the strong treatment of the strong

mond officers are metasted in these a		- 1 -	1.	1 1	- 1	1			
Theory of equivalents, I complete to a tradition in mort. I day hoot — 3 counts	2. Only for Riddle offers and boughd. Burtle offers to the latter of a rear while at 1 the riddle offers and the riddle of th	Transport (camela)		Resall arm werps telebon	Cooki " tenditatil evite of 2 n ch per butlety will press preg	Futive his took as tion ments per regi	A loya fant form en exel	2 lays grant for lorsest.	Total weights, maundr
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Brigather General G. Burrows, Quarter Master General Brights.

			105
British earnley	***	***	151,209
Natue "	•••		Curry their own
British infratry	100		193,100
Native "	**	***	79,200
I'uld battery	***	***	86,100
Company suppers	144		11,600

		Brt sh Owal 5	Aut re Creaks	Dr t 1 In Country	A tre I tautry	Field Battery	Company
1 Cump Equipage 2 Beggys 3 Annumation 4 Cooking utensis 5 Intracelung tools 6 Food for four days 7 Grun for houses	Country	75 67 7 3 0 Commiss	llin trun	100 97 21 1 1 1	22 53 19 0 1	28 93 0 1	5 5 9 0

		Ībs
Liephants	earry	1,200
Camels	22	400
Mules	22	200
Country ea	ıts	800

Bugged a General P G Kemp Table channes moughts to be carried by the several aims for service in stor, Communiting Colod D starts

Use plants

Dia 3 septe	Dr Do:	I for s	Rait tof fd artil 17		Tafastry	g at bein g at bein Combant	Rigists
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	83 658 T Dat Q S 7 0	21 € 3 21 € 21 G 41 700	23 9 6 T Cat. Q 10 11 0		5 ,000 T Cut Q 25 2 0	0 9 % T C 4 Q 4 0 0	

It would be difficult to state the amount of transport, as such would vary according to nature of service and character of the district when the state of war might be curred on. To instance in this district which is a block office and nothing but 1 cases, make, and pack bulleds would be of service access country, wheeled carriage could only travers todds.

Colonel T Macdonald Secretary to Go erament of Bonday Mila tary Department.

						Πe
British eavalr	F	141				151 200
Native cavalr	enny t	heir or	TT.			
British infunt	tγ					192,400
Native infant	ΙΨ	***			,	, 70 200
Company supp						11 600
Tield battery						36,400
	Best sh	Nativo	B, tish	Nativo mfanti y	Tield battery	Company eqpl era
Country Carts	75 67 7 3 0	Carry their own	100 97 24 4	22 50 19 0 1	28 23 0 1	6 8 2 0

 $\binom{6}{7}$ The Commission General will give recurate information

Elephants cury	1,270 Hs
Camels n	490 ,,
Mules ,	°90 "
Country earls every	800 "

Colonel A. H. Murray Deputy Adjutant General Boyal Artiflery in Ind a

See table attached as far as artillery is concerned -

State sent of transport required for a battery of Royal Aristlery

3-4					42	Ī	Without officers carriage which		
Asture of equa page	Mds	STS	ike	Elepl ants	Crr els	4 les	114	33 He 3 s	us porta e mil usi cutod m pluns
F P tents 16 S S to to 5 Listear ple 5 Regroup for 10° note An want tone 2nd into Coch og utensels Commus-connet ra- teens for 167 men for 4 days, Gr n for 200 horeve say 145 valers d, ou stud.	70 31 16 71 170 8 2	0 92 12 4 0 0 22	0 11 0 0 0 0	22 7 †9	28 6] 3] 15 36 2 6	36 11 21	7 11 3 2 9 14 21	30 *2 4 1°	* Only two E P tents can be curred upon cuch elephant. † Only four boxes cun go upon cucl ele- phant.
Total	616	81	0	35	10"	۲,	26]	138	

L entonent-Colonel A G T Hogg eputy — Quarter Master General

British eavalry Native cavilry cury their own	••	llus 151,200
British infantry		192 400
Native infantry		79 200
Company suppers		11 690
Pield battery		36,400

Botsh ca viry	Caralg Caralg	Rest al ufa tep	Nat s unfunity	Febi batterp	gallers On obstails
		Country	carts		
75	Ę,	100	22	28	6
67	Cury their own	97	55	23	8
7	yth	24	19		2
3	Curr	4 .		1	
		1	1		

(0) and (7) Questions for the commissariat department

	lbs
Elephants carry	1,200
Cranels	400
Mules	200
Country earts	800

Vajor A. & A. K. uloci Deputy Assustant Quarter Master General

In the absence of looks of reference, and being without the means of obta ning ti cm at present, I am unable to reply to the various hadings of this question

It my jet aps be reful to give the numbers of mules which are considered recovers to enable a British or Native infinity a gunent, considered receives to custom a strain of that we an intry a general a Native errain regiment. British mounting lattery and a convey any of express to tall other del with four day a spokes in the higher where makes are the only a table transport animals.

muse are the ways various expression running.

The beginger and camp equippe of followers, as well as their food, have been contitled in the color lation.

The load of a mule has been thich as 200 lbs.

The tents calculated for are sepoy pals

Number of mules required by-

THE RESERVE OF THE PARTY OF THE					
	Best sh sufantry	Nat we unfants y	Native cavalry	De t.eh mountun bittery	Company suppers
Cump equipage	ш	63	rr scale	Curred by battery	ar sealo tada
Beggige	174 87	103 95	ron mui	m des 31 Carned by Indiery	ferent do
Cooking microssis Entrenet ing tools I cook for finar lays Gran for too days (mules and horses) Pachals for with (absolutely accessing)	12 16 80 29 16	8 13 47 19 17	Approximately on similar scale but with different debals	mules. 3 A.i. 10 20 18	Approximately on sum lar seals but with different details
Total	520	360	400	99	90

I entenant Celonel R Blundell, 3rd Hussars 88,008 lbs This does not include the weight of tents allowed by Government for men, garrets, bospitals, and followers. This would be 22,800 lbs more, in 41 61,708 lbs.

Loudemant-Colonel B. S. Clein id, 9th Lanctrs,

,500 His	more, m	ul 61,708 lbs	
	Mannie.	Secre	Camels
(1)	382	2	71%
(2)	414	22	89
(8)	57		10
(4.)	30		6
(5)	10		2
(6)	1701		341
(7)	109		22

Licutement-Colonel Lord R D Kurr Common d : g 10th Hussers The weight to be enued by a regiment British cavalry, according to last scale published for active service, is—

Manuels 1,101, sees 31
The amount of transport required under these headings is as

		ine amount of Na —	transport	required	unaet ta	iese nerangs	18 25
(1)	Сатр едиграде				weight	21ds 8m 624 4	
	22 22	enzunge				125 camels N ls 815	
(2)	Baggage	etmage	•		neight	315 11 63 camels	
	27	33				4 mules Mds Srs	
(3)	Ammuniton	carrage	,		weight	66 1 31 mules	
,,,		-				Mde Sta	
(4)	Cooling atenals	earninge			weight	17 31 (crmels	
	Great econom tun ecol ung utensi	ny of costand Is	weight non	id be obta	med by n	itroduction of Mds Sm	block
(a)	Latrenching tools	and signilling i	mplements	enrage	neight	8 16 2 camels.	
	22	27				Md4 Srs	
(G)	Tood for men	earringe			weight	23 21 Comeis	
(7)	Grass for 2 days	camage			neight		
	Total entringe t		sent scale	·		229 camels 35 mules	

I eti. Col J C Le Que ne 12th Rey I Lancers Including tents and home blankets something over seven tons. Ten wagons should amply suffice

I e t Col G Luck, Command mg lock Hussars

I append a scale of weights required for a cavalry regiment. I have just received it from my regiment, but have no me as at hand of testing its accurren

[Appendix IV (1121)

Weight to be carried by a Resiment of British Cavalry on the plains

DEBET TO BE U	MES A 14 GARAGE	BREZI OF T	JAMES ON	ALMS DV TILL	PLAIN
	Strengt	ef the re	y ent		
I se tenant colonel Major Paymyste — majo Surgeon major — Cupta ns Subalterns A judant Q vritermaster R ding myste Velermany surgeon Otherer's mess Striff sergeontis Rani and file	major.,		•		111111111111111111111111111111111111111
	T st.		P.ia	Bargat	Dimbet Cash Jawati
1 heutenant-colonel 1 major 1 paymaster 1 surgeon major 6 cupta na cich 12 substituna, cach 1 adjutant 1 quarte massier 1 rd ng massier 1 rd ng masser 1 vetermary surgeon Mess 9 staff sergeants, class A 1 class B	1 single pole 1 h li 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1 , 1	n e 20 16 8 15 8 15 8 15 8 15 8 15 8 15 8 15 8	1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3	s. n 26 480 26 450 26 150 26 150 400 570 520 520 520 520 520	21 2 6 12 1 6 12 1 6 13 1 6 13 1 6 50 16 90 190 29 48 8 13 4 8 13 4 8 13 4 8 13 4 8 13 4 8 13 4 8 13 4 8 13 4 8 13 4 8 13 4 8 13 4 8 13 4 8 13 7 14 98 24 15 7 41
144 runk and file Rations for 453 no Gran for 175 lors Gran for 67 ola Entirachino tools Cooking atensils Ammunit on 80 i box. Arm chests if full	n-commi succed o es for 2 days at 4 ers for 2 days at viinds per inna (seers per (4 seers per	nte i fot 4 é hem diem	lŋs	\$98 10 22 \$2 91 13/ 16 30 an each 59
Paulins and troop : Votes nary stores Scales and weights Saldlers Saddletree mal ers Orderly room	itores				50 10 10 5
Pry office Qurate masters off	}				5
Armourer a stores	x8)				19
T a	tpastsee relfor	areg e i	of Britis	casal j	
1st — For emp equ: 2 d — For buggings 5rd — Imm int on 4tt — Cool ing tens 5tt — Lintre et ing it 6tt — Ford for 4 bit 1tt — Ford for 15t 0rn if or 15t 0rn if or 15t 9tt — Theal ra in d it 10tt — Veterarry, 3d 11tt — Armonie s sit 12tt — Sail Her s store 13tt — Sar Her et al. 13tt — Sail Her et al. 14tt — Three off Cos- 15tt — Sail Her et al.	onge 699 mm nd SoS mun ds ser, ee 49 n aun is 6 t oops sok s for 153 men l orses thurgers ees tees ee e ters stores o & ly room, pro	v 20 seers			Cumed 4) 1:2 12 6 2 17 21 9 21 0 2 1 1 2 1 2 1 2 2 1 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2
				Total	517

44

Arthor t s

Offices betts-Board trace Bornhel are typ, size page 55 In 1920-10 Vo Mode 12 mg acrais a India Office of Quart. Made General as India 15 of 8 for of care. — wassands per cand

Major J W Chaples 8th Hussars

British emaly (strengt) -

2 Field officers 23 Officers

9 Stuff sergeants

445 Non-commissioned officers, rank and file

486 Har es

- (1) Weight 568 maunds, at 5 maunds per cumel, equal to 114 camels, or 38 elophrats, officers' tents not included
 - (2) Weight, 386 munds (quarter-master's stores and artificer's tools not included)
- (3) Weight, about 56 maunds in 58 cases lined with tan, at the rate of six boxes per camel, cons to 10 camels
 - (4) Weight, about 27 mounds, at one camel per troop, equal to six camels
 - (5) Weight, about 74 maunds
- (6) Weight, about 57 maunds (does not include firewood or rum), requires about 14 camels for transport
- (7) At the rate of five seers per horse daily, equal to 109 maunds, requiring about 22 camels for transport

Capta	αJ	A.S	MacLenz o,	9th
Lancore				

	Mannds	Secre.	Carnels
(1)	382	2	713
(2)	444	22	89
(3)	. 57		10
(4)	80	***	6
(5)	. 10		2
(6)	1701		341
(7)	109		22

Colonel J & Roddell, 125th

Kogument.	(1)	. 1,188	
	(2)	900	
	(3)	267	
	(4)	48	
	(-)	10	

(0)

(7)

(ę 6 (0 (

150 45 ٠. 8 2 28

Camels, 198

Licutenant-Colonel M. MacGra gor, 1 18th (The Royal Ir sh)

(1) 600 maunds, or 120 camels

" or 112 (2) 560 (at the rate of 8 men per cumel)

(3) 221 maunds, or 57 camels

Mands

168

2

(4) 24 or 8 27 *

(5) 12 or 2

(0) 111 or 22 27 1 4 or

Total 1.532 or 392 11

L estenant-Colouel G P Wall er Commandant 1 12th Toot

A hattalion of British infantry 800 strong on service in the plans would require about 255 camels at five maunds each, total weight would be ab

00	t 1 275 mausus	Camels
(1)	comp equipage E P tents 16 mon per truit, for 80 men	00 100
(2)	baggage	80
3)	ammunition 130 tounds per man	. 30
4)	cooking utensils	8
4)	entrenching tools	₽
6)	food for four days, at 4 lbs per man	52
7)	grun for horses for two days	2
	Wetal cumber of comels	954

I generate on I D Warren 214th (Prus of Comma d 2 14th Wal Own) Regumen

	Can e	II n e	Car Fre	w ∍ht
(1) Cum equipage as had down for fellise cein the plass (2) Baggage equipage as had down for feld serve on tite	145	G0	7]1	Alds 133
plume (3) Am maton (serve scale to E.2.	138	46	69	G8S1
(4) Cool g ut n is (at tle rate of t o camels per battery and one per corn any)	52	a	96	260
(5) Lut each ng tools at the rate of two camels per rg ment	2	1	1	10
(6) Food for four days for men (not followers) (1) Grain (for heres) for two days	69	Es pen to	r luct	800 on)
	380	Isi	1971	19 31

Local nani Colon I G W Puggi Commandia... 34 h R g ment

- () Camp equ page (1 ght) —"9 ermels
- Can p equ prige (hervi) 167 camels Bagg ge —152 evinels 8 mules
- (3) An mun tron 00 m les (4) Cool mg t ns ls 8 canels (a) Entrench ng tools 8 canels
- No informat or
- Leutennt Clon i J S Hand Comm. plung 41 b R , ment

- (i) Camp can p g 70 900 lbs would require "I borts 60 elephants or 86 c is or 117 reachs
 (2) Bagg age 31 800 lbs would req re 31 boat is elephants or 65 crit or 130 cames (S) Amm urium 737 boxe about 73 900 lbs would require 73
- lonts 6º elephants or 91 carts or 181 camels
 - (4) Cooking ten is 2 .66 lbs 3 bo to 1 clepha to or 4 carts or 8 camel
 (5) Bittenelung tools I boot 1 cliph ut or 1 cart or 9 camels

 - (a) Birthebung, took I bork I (i) ji cut of I cut of "cutted".

 (b) Frod for 54 to 37 the 50 bases obelants 5 Sector of Lorends

 (f) Om holisones for 50 ye 1 locus 55 ha 1 to 1 tolgo into 1 et d. or 1 cutted

 17 Le mile bases no those of the mogges on the 1 or threadly sales 7 locus

 7 certis to two blood B masses et is 1 d. or my lo. 550

 12 ft in les are those deri to fire cutted

 - I om tied to ad I m my casa e to quest on 7 tlat for heeled troll es dra ru by two mules are
- and the to that it may take to open our take to be descent for even it may be administ an excellent or ago over no administ have had be even to extra the third or ell. It is not not no with the tripped even of two litters is company of ell by the remarks located it is destined it transpart likes are well as true them to lecome no nit il and ny for all of pump of liming no cumping on its emergency of can the performants night leadshift. Of the One performants and the first form death is soon of the fact of the performants and the first form of the little of the control of the soon of the

In Myssu a all the mounted I proposa a perintendents de them

Let n nt C lou J W Hughes 51 h R _ ment

	Wegltm	. wil	Dyshs	Or two ol c ts
(T) (N) (N) (N) (N) (N) (N) (N)	Ist Re erre 2n1 Re er v	6 2 431 35 9,7 2 10 *100 21	45 0) 33 18 0	CS 44 4 90 3 1 10 1
		1 ,38	196	1,,7

⁴ F wielfr& allmb win a(Side)t w 1

Plephant and two lodicel lackene are the tan port available in the ne ghi e whood of Calcutta

Lout Colonel C B Fagules Communing 6 to Regiment

Weight	Weight in minude		sml er of masel	vanter of me	
(1) (2) (3) (4) (6) (6)	, 816 769 180 40 10 118 5	41 35 9 2 1 6	162 154 45 8 2 24 2	321 308 90 16 4 43	
Total	1,982	97	397	791	

Major f' Stephen 4th Battalion Rufe Brigada

		Maunds	Camela.
(1)		. 861	151
(1) (2) (3)		$g_{\rm D} 5$	186
(3)		165	29
(4)		32	8
(5)		10	2
(4) (5) (6) (7)		70	14
(7)		ಕಿಂ	7
		~	
	Total	811	347
		Maunds	Camels
leight for a	a regument of infantry (of 800	
streng	•	2,585	

Major F S Terry 1 25th Eing's lef W Own Borderers

2nd(1) Cump equipage 1.188 148 (2) Baggige
(3) Ammunition
(4) Cooking utapuls
(a) Ent enching tools
(b) Food for four days 900 150 207 45 18 8 12 2

168 28 (7) Grain for horses for two days 2 į Total 9,580 4813

Major Hogh P Pearson 12th

I will answer this question, so far is it upplies in all purisolies given under the several headings, to a Bart sh infantry regiment. I will attach at Appendax (A) to show the call extrems in detail the produce the total given below. The convenance the curinge will be worked out in camaks of by

Weight Camels	(1)—Camp Eq upag	M 1,099 215	S 111ॄ	Weight Cuncle	(4)—Cooling 1 lensels	M 40 8	s
Weight Cimels	(2)—Baggage	920 185	2,	Reight Cimils	(5)—L treneis ig tools	10 2	
Weight Camels	(J)—Amauniton	176 81	19	We ght Camels	(6)—Food	287 58	10

(7)—Grans for horses M S 1 8

Weight Camel î or a total altogether of a 331 mounds 33 seers, requiring 500 camels for its conveyance (See recapt tulation in Appendix A)

APPENDIX A

Shoring the proof of the replica to guestion 17

The required weights will first be given, il en the nithonied currage

The calculations are based on the establishment of a British industry corps as given in this Bengal Army 1 et in the note on prz. 187 (list lost). Medici officers and enlor hardes are not in cluded. The psymaster is calculated for as a captain. Tents for herystal are meluded.

	(1	25)			[Ap	pendix	IV
	1-17	rugar	re					
(a) Cump equipage (officers)	"		Cooking ute	anl.—				
M S	N S	1	-				M	S
1 single pole tent @ 19 21 == 29 bill tents @ 8 31 == 1	10 917	At	5 maund= p	er comp	nay		16	0
4 pals (1 for men) @ 3 101==	11 2	ĺ						
1 double-pole tent (men)@ 35 91=	33 q1		Total weig	bt cool	ang uten	વીક	40	0
	321 12	1					_	
(Non commissioned officers and men)	J.1 10	[c]-	-Entrenching	tools.			M	S
8 W	M S	1					76	
	56 321 721 67	A	t 10 mands	her reg	mene		10	υ
et Tr. rettes @ 10 notem 1	721 67	1					_	
Total weight C equipment 1,		1	Total weight	entren	ching too	ls.	10	0
(b)—Brggrge (officers)— 1 heuten int-colonel	VE S						_	
2 majors	39 0		n 15-7	. ,				
8 captures	30 B	(* .	-Pood for 4	qen q	miy mu	•		
16 subulterns 1 psymaster	80 0 10 0		Meri			1 16		
1 quarternaster	5 0		Bread			1 "		
I adjutant .	5 0		Vegetables			1 ,,		
Mess allowance	125 0		Firewood			3 lb		
	\$60 D		R ce					
ar			Sugn r Na					
(Non-commissioned officers and Men) -	M S		Sult.			7 z		
4 staft serjernts, elass A	10 0		2.49	`		5 ×		
681 non commissioned officers, rank, and file	5.0 Sa							
and the	836.29	1		Weigh		6 B		
Total weight laggage	920 25		lbs [] 025					· ·
(c)-Ammunition service scale, 1st :		15	hich x 4 da)B	≈21,	,083	, 105	,
. reserve-	and and						V	S
40 sergeants (#) . 150 rounds==	6 000	2	inch, m mau	ads			==2S7	10
788 non commissioned officers, rank and								
file @ 130 " =	102,419	fot	ıl neght 4 d	rys' for	ad for reg	nment	257	10
Rounds	105,110						_	
Yelithia	M S	(5)-	Gia a (for h	arses) f	or 2 days	-		
108,440 rounds VI II ammunition @		5 0	bugers at 4	ecers e	ach per	liem (∄ .	_
090 iounds abox=181 hoves and ISI hoxes @ 78 a box=	176 19		ទី ឬហិន				1	8
	-		m.s.	1 W	14 C		1	8
Total weight ammunition	176 19		105	at neg	lit Grun			
(NB-There are 57 aga commissioned officers	end man							_
not armed with nifes)								
	II -0.							
The carrings	e 15 orlea		na camels on					
(a)—Camp equipage (officers)—		-	(i)—Brggsg	a (office				
Camels	Cemela				Cathela			atl .
I lientenant-colonel at 1 =	= 4		heulenant o					5 6
2 milions 2 =	= 4		cabian a		. 2		- 1	
S can tribus 1, 2 =	= 16 = 32	16	subalteras		. 1		1	G
	= 2	1	j njunster g usterunste		, 2 1		==	2
I quarte muster 3 =	= 8	î	ndjetant		, i		==	1
2 20 22	= 2		Alea aller a		25		== 2	5
Aless allottation 39 2 =							7	2
07	69	(%	on egan in 990	ned offi	eers and	men)-	- "	•
(Non commissioned officers and men)—	. 70	4	stell serges	ets, el	255 1 ,	૧ <u>ૄ</u> 1		,
9 Staft sergeunts' tents at 14 camels = 67 E P tents undu line grand, hos-	= 19	881	क्षणाः अवस्य व्यवस्थाः १	ioned :	nfficers.	rml	E :	,
67 E P tents note ling guard, hos- pital, &c , &c , at 2 camels =	=131	302	and file, at	men j	er camel	- 1400	≈11	Ĺ
	-21a		Total	- ادادات	1		=1%	
room comes to camb edulade ==	2010		Total ent	gers 101	ouggage		=170	
	,							

(c)—Ammunition— 181 boxes of M H ummunition at 6 Entranching tools— At the rate of 2 per regiment (f)-lood for i days for men (not boxes to each camel = 31 followers)-Total camels for ammunition **==** 31 Weight of I days food for 8% men=287 munds 10 seers, (d)-Cooking utensilswl ich, at a maunds per camel = 58 At the rate of 1 per company = 8 (g)—Grum (for houses) for 2 days— Weight of 2 days' food for 6 chargers=18 seers NB -- Provision is not made in this calculation fo carriage for aims of sick and wounded men hospital stores medicines, &c , &c I ractions of camels have not been considered The following is the -Seers Camelo Recapitulation (c) Entrenching tools 10 0 = 2 10 Mds Scers Camels (f) lood for men 287 == 58 1,099 11 =215 (a) Food for horses 8 = 1 Camp equipage (8) Baggage 920 25 =185 =500

Cooking utensils 10 0 = 8Major J H. Campbell 33rd Total weight for the regiment for all purposes, 2,1355 munds-Regiment Garriage

 $176 \ 19 = 31$

2,531

52

309

10a

Grand Total

Carts Camels Mules Major W H J Clarke 72ad Highlanders (1) camels 142 (2) camels 110 camels 29 ermels 8

Amm inition

(5) comels 2 (6) camels 3 camels 36 The strength of the regiment calculated at \$50. Total number of camels required 327, weight to be carried, maunds 1,653 14 I attach a paper showing Cabul scale of carriage both for cainels and mules -

Cabi I scale of carriage Camels Vales For 850 men s I its at 10 per camel and 5 per mule 170 150 78 " 8.0 tentage at 42 per sepoy pal, 39 tents I sepoy pul for gund 2 1 I lisen ditto 2 ,, cool s kapanahs and cooking utensils 0 18 " entrenclung tools 12 6 " quartermaster's stores j 6 , company ammunition chest 4 ,, umourers' tools 112 " sumunition 40 , rum 3 days' allowance public followers at 10 H s each (80)

billhool s and felling axes 2 1 3 6 2 1 " signalling justr ments 1 1 blanket picket tents (3) ł 32 Officers and Servants 19 38 Buggage and camp equipage Add a per cent on camels and mules 27 2724 F61

l or a regiment, British infantis, ray -850 all rauk -Major C S Wi to 2744 II 21 Hader Weight (Wis) Camin Miles 666 632 129 ٩ 132 23 20 32 8 9 2 150 37 1,522

Total

860 28

G

30

The above is about the calculation with heavy camp equipage. If light camp countries, deduct-

	3564	Camels	Moles
	804	8812	
leaving with light o	amp equi	pagé	
	3514	Camels	Mule
	1 168	248	28

Capta a H M L Hatel on Abou

About 53 tons, including cump equipage, he pital equipage, ammuni-

Colorel C R. O Fva : Commanding Royal Artillery, Meeret D viscos

	Manada	Seers
(1) Camp equipage (2) Baggage	281 198	30 20

(1) Cool ng utenetls

For a britiery royal horse artillery-

10 (5) Lutrenching tools are carned on battery enrages (6) Food for 1 days 18 (7) Gram (for horses) 2 days 60

509 10 or at 5 manuals per camel, 114 camels would be required with a propertion of spare

Hajor H. C. Lower Commanding I let Royal Artillors

The weight to be carried in the aggregate by a latticty of artillery according to the scale had down in order issued by the Carater Vasser-General's Department évited Shark; 20th September 1878, would be, including four days food for men and two days grun for horses, about 360 maunds This would include

- (1) Cump equipage, 60 maunds
- (2) Baggage storts &c , 218 mounds
- (3) Ammunition for Sul line, 30 camels (500 rounds and gun in recerse ammunition column)
- (4) Cooking utensils, 2 camels
- (a)
- (6) Food, four days', 15 camels
- (7) Two days' gran for horses 8 camels
- or 125 camels in all. This is without spare which should be calculated at 10 per cent, and without considering followers

Maior W W Murdech Com manding E A Royal Horse Art 1 I attach a form showing the different weights and number of camels required under each I eading . I have calculated the strength of the men at 140 which is quite as many men as are ever hillely to be available for service and as many as it would be necessary to take -

Carriage that no ild be required for the undermentione? ite is for a battery consisting of 140 men and हराट १ भी ट्या

Description	We glsL	Je of camele	Remarks
1 Camp equipage as had down for field arrive con stime of— Tentes 10 F P tuckning one guard M S tims with in much 22 verse evokes 113 %5 Tents 8 stiff sergents wit 6 manufes 124 vers Tents 9 theory ralp, wit 5 manufes 104 serges Poster 5 bears ralp, wit 5 manufes 104 18 serges 18 124 19 men at 8 men per camel 4 Cooking views is at the rate of 2 camels per latter 6 I could (for 140 men) for 4 drys (not followers at 64 liss per run) 7 Gram for 2 days for horses (175) 89 valers and 83 stid breads Seen officers at 2 camels each for equipage and brangings	Maunds 146 5 9 40 0 9	29 18 2 9 8	

Major T M Hazelrey Com monding E 3rd Royal Artillery

By a battery of field artillery-

(1) (2)	Vaun 1- 187 101	ം 3 35	Can el- 3S 21
(3) (4)	10	0	' 2
(5) (6) (7)	54 39	88 0	11 8
	393	28	80

Major the Houlde A Stewart,

A table showing the transport allowed for a 9 pounder battery Commanding I C Rosal Horse horse artillery, as a pended

n eight of t	n eight of undermentioned articles a d miliber of traisport required								
		Weight					er ca		
Nature of Equipage	Я	g	lts	Disphynts	Camels	Mules	4 bulled hacker	Bullocks	Reviers
E P tents, 14	70			47	28		7		Only 2 E P tents can be carried upon each elephant
S S tents, 5 Lescan pals, 5 Baggage for 157 men Ammunition, 2nd line"	31 16 71 175	22 13 4	1	2 2 7 10	61 3 _T 15 36	86	11 1 8} 9	30 72	† Only 4 boxes can go on each
Cooking utensils					‡2		1	1	elephunt I This is n n bommable arrange- ment for a bittery of artillery Liverything should be drives- ble by three in a bittery of antillery, which is organized by divisions and not usings like a regiment
Commissariat rations for 157 men for 4 days Grun for 200 horses, tiz,	27	22		3	6	14	1}	12	
145 wales & 55 studs	47	10	1	5	10	24	21	20	
TOTAL	508	31		35	107	74	267	188	

Major C. P. harne Royal Horse Artillery

I have no bool sto refer to but the total weight would be roughly 435 mounds but this includes several items not slel about lele v eco 1 st at end, and does not include neight of ammunition or stores now

carried on the carriages And the transport as follows—
(1) 39 camels

(2) 15

- (3) 39 bullocks for second line wagons
- (1) 2 camels (a) Carried on wagons and limbers

(a) Carried on wagons was assumed.

(b) About 5 counts

(i) 10 camels

Besides the above a bettery, royal horse artillery, as allowed by regulation, and required—

4 camels for prulins and troop stores

(c) the for moderness, homital records

- 1 2 bullock cart for hospital furniture
- 1 camel for veterinary stores 1 camel for scales and weights, &c
 - 3 camels for bullock gear
 - 1 camel for bulleck gram
 - 3 camels for 3rd horse blant etc.

Major P P'(2G Gallwer Royal Artiller)

I have no means at my disposal, I regret to say, to entile use to make at my of these que t one except the one regarding ammanutum whitei Haves disch assessed to a great cates in right to quest on No Teper D, to which I would refer. The number of multi-required for the only regressed in the results of the only regimental reserve there as it of minute, 30 cm and a regiment of the results of minute, 30 cm and a regiment of the results of minute, 30 cm and a regiment of the results of minute, 30 cm and a regiment of the results taling a battahon at 700 miles, would be 35 to 10, seconding to nature I think I have given the carriage required in all other cases, on the si provision that the ammunition column system is adopted Capta a M G. Gersrd "ad Con-tral Ind a Horse

Present st ength of regiment (Central India Horse) 7 European officers 498 Native officer stuff and men

Only local trunsports bulled o ris a back would red ce ranteles of regionat to 18 , ites per diem although the poties of Antive rinks ar winge 28

One cart == 2 camel loads only on Central India road

Duropeun officers, staff Mess Hospital and guard

All Native rinks already provided with popy curringe by regulation Puropean officers, staff

diess Not we ranks Both ranks 100 rounds

1 per squidron In addition to which the spees must be fed some hom Horses and baggage tations

Total 2.3 pomes = To be provided

bland be S £ 10 3 4 10

Br gad er General C. J. Golby Commanding Panjab Front er

I can only g we that oursed by a regiment of Antive on alry (1) Light cump equipage 34 cumels we glit 130 mainds.
(2) Light haggage 47 camels 6 mules we glit 320 minute in-

(3) 493 Nat ve officers and men of all runs's erac country of makes we're soor in runs' and claim of the country of rounds per men in holder and pooch, 60 rounds per man recerce on in les or 60 500 rounds requiring 27 in les meight 671 maunds (4) Cooking utensils require 6 camels a eight 30 maunds

(5) Entrenching tools as non assued to Native envalry are carried by the men as part of their

equipment (6) For 493 men of all Native runks at dealy rate per man→

1 seer flour, I chattael glee

2 chittael s dhall I chitack sugar

1 chritack tabacco

for 4 days requires 16 camels a eight 644 mannds

10: 4 days requires to emmes a cogni of a towns.

(7) For 517 hores for 2 days at 4 sees; let doen would require 26 ennels, weight 1034 maunds.

For 255 gress cutters power at 2 sees per doen 6 ennels, we git 2.04 maunds.

Total transport required under the above headings—

Camels

Mules Weight 100 33 747 maunds

†1 S70

13 896

Colonel T G Leanedy 2nd

I do not understand the question but I have seen no regulations for eampe in age or laggage for held service in the plants of I am und le to make any calculation In all wake jublicled there were to be no determine allowed between summer and winter or Bhootan and Afglauset a, boggage req mements, a hereas of en ree one is rust double the other

Colonel J Blass v.c. Com peroduce 1st Bunday Loncers.

Remrkeg Europen offcers to notfel in Bemby, Regultion that in ever of a compage the neight to be carried no ld is get fed.

(1) Notice offers and men. (I) Not we offers and men (2) Bragage mel sling horse gear and followers Lits /31 055

(d) Six camels (d) A l (a) 2 Crimels

(6) @ 10 lb per man
(7) 7 797 lbs for 187 horses of this half is corried in

bigs on the horse and half would I are to be carried Camels and curis are procurable here

Lettenart-Celenel C. LeTouche Commundant Poors Horse

Heats of agage 63 camels Bagg ge including off eth and followers 54 Ammunition 1st Reserve 2nd do 1 mule Date 1 cumel Cool mg utensils 1 camels Armo irer a stores 2 mules Arms of sick 1 cunel Quartermaster's stores 2 cuncle Re_o mental off co Medical stores 1 camel 3 mules Tetermun etoma I male Stable gen 21 cantel

* C er l'er nestal v † Extra carri ge would b prepaned

Tood for four days for four hundred and fifty five officers, Native officers, non-commissioned offer rank and file at three lbs per man for each day=5,100 lbs =17 camels Gram for four law hed and seventy four troop horses and officers' chargers at eight lbs per day for two days=7.081 lbs=24 camels Grun for two hundred and thirty five pones at 4 lbs each for two days=1 050 lbs = b camels

Making a total of one hundred and much seven camels and seven mules, which converted into local currage at the rate of three camels or seven mules to a cart, would give seventy carts or if forth crimings of the rise of three cumbes or even motion or acting wome have several cums of in-carried entirely by points, at six points per early, would give a total of four hundrel and treaty points. All the above calculation, with the exception of there for food for borses and mean, as that, from a Quarter Master General's enoular issued at the commencement of the late or in usin from Sink, which are rather under the mark, as pointed out by me in my reply to his letter inviting criticism

L cutemant-Colonel J H P Malcolasson Command ag Srd Sind Hone

- 26 camels 60 camel , including stable gear
- 37 camels. 4 ditto (5) 2 ditto
- 18 ditto 30 ditto 177 camels.

The S nd Horse could move without more than 60 camels as fley on carry two days' grain and two days' food for themselves on their own camels and baggage animals

Colonel J Doran, 2"th Pompab Not e Infantry

- (1) Cump equipage as laid down for field service in plans, 12a maunds=20 camels
- (2) Baggage equipage as Ind down for field service in plains, 150 mrunds=30 camels
 - (3) Ammunition service scale, 150 maunds=30 camels (4) Cooking utenals Included in the bigginge
- (5) Entrenching tools 2 csmels
 (6) Pood for four days for men (not followers), SO mannds=19 camels
- (7) Grun (for horses-eight officers' chargers), 2 maunds=1 came The transport is calculated for the kind used locally

Sick transport not included

medical officer, employed on service in the plans of India would require, under existing regulations-

Colonel H S Obbard Command aut 41st Nata e Infa try

All published in military regulations A regiment of Native infantry of olds my strength, that is, 600 sepays, with complement of A tive commissioned and non-commissioned officers, 7 Br tish officers and a

Total

Maunds Cam le

131 unicle

 Cump eq upage, as laid down for field service in the plains— British officers 60 12 Native rinks 125 25 Baggage British officers 40 Native ranks 160 32 Ammunition, service scale-1st reserve 0 17 2nd reserve n (4) (5) (6) Cool ing utensils 40 8 ě In trenching tools 10 16 lood for four days for men not followers (7) (8) Armourers' tools 0 1 ō 4 Arms of salk Ò Hospital medicine, &c 1

British officers are supposed by regulation to I cop up tents and carriage for them, so as to be really to talle the filld it an hour shortce, rule unitary regulations. But as a matter of fact they do not. Except under special circumstances, no curringe is lept up throughout the service, British or Indian, and in very many cases tents are not kept up either

The question of tents seems to call for consideration. Those prescribed by regulation are almost too heavy and cambersome for service. It would be an advantage if they were of such pattern that the several portions could be earned on miles or bullocks. The Cashmere i at would do very well for off cers. The tent for British sold ers might be modified and hightened with great advantage Sepoy tent are of bad pattern, and the tert accommed tion is below requirement

Baggger-fie arrice scale as regulds British others might be reluced to 4 mounds for fild off cers and 2 maunds for other

Cooking stems to - The weight of these on service might, I think, he restricted to I maunds per

company fur ab m ms ig page Lite of gloods -Tho e now resued in heavy and sursuitable for use by h ince A good, well formed phowrsh, weighing not more than 3 seers, and a boodal piel, weighing if out 2, would be

far helder and diagether more effective. Work would be done much more rapidly with such tools, and then nould be a syving of whost is mounds in cought. A price of carness (till) looped for the healths, to be fastened over an ordinary produced by would, if think, be a better arrangement for carning entirestings tools than the elegant little mon kapuras helps such

Lagawas lately asseed	-						
Leafeant Calcael H. Weerley	. (1)	Сапр Едпіраде					
Consumbing 7th Autore Infantry	,				Mds	Sr-	Camels,
		Officers' mes		to		115	27
		Native officer	5	***		G.	4
		Sepoy pals	484	***		23	16
		Gunds' tents	441	450		63	2
		Hospital	***			251	2
		Pellowers	419	***	Nıl		
					255		
			31	otal	275	67	51
Baggage.					Màs S	rs. Can	nds.
Officers' mess	80	159	~		56 0		
Native officer		***			36 €	1 8	3
N-C officers					179 0	36	3
Hospital			411				
Regimental o	ficers and	armouter		***		1	
And the same of						_	
				Total		56	
(3)-Ammunition							
let Reserve.							
					Cam	ds Ma	des
30 rds for 60	0 mfles	***			6	18	
2nd Reserve							
100 rds for 6	00 miles .	***			20	60	
					_		
				Total	26	or 78	
(4) Cooling Himsels							
						Crime	ls.
At 1 per comp	any .		•	***	411	8	
				m . 1			
* 171				Total		8	
Four would be enough,	as the cool	nag uteasus ne	00 HOT 80	ede eas n	enunds,		
(5) Extremelitan tools Camels allowe	a .					. 2	
They can between them		***	160	,,,,	**		
THOY CAN DOOR ONE SHOUL	carry					lbs	
4 Felling ax	is		***	444	_		
40 Pick axes				***	~	= 480	
40 Shorels		***		117		= 240 = 240	
40 Bdl hooks		***	***	***	_		

		T	tch	***	8	32 lbs.	
				or M	ds, 10, ers	. 16	
(6) Food for four days	for rank a	nd file only-					
Mds St		•					
71 8		e 14 come	ls.				

(7) Grain for two days for officers' chargers-

1 md 33 ms. or 1 mule.

Total scopil to be carried about 630 manuals crelinate of ammuni-tion, and food beggings, &c., of followers
Total transport if camels only are used about 160 or 160 camels,

Lowiserat Colonel R. J. Walker To unswer this question properly, I have had to attach a table -

Talle draw 1 1p in answer to questio 1 17 of the Transport poper

2°ame	Scale	Weight p	Aggregat ne gi t.		Calmige
		Mds Sm	uds Sn		
1. Cump equipage	40 pals per regiment	3 6	196 20	ed Carrage at the rate	
2 Baggaga .	hative officers 30 srs	0 30	12 0		7 00
	Non comm suon ed officers lo	0 15	30 0		3º comel. File
	Sepoys *1	0 %	115 20	616 sepoys at 74 0 0	scal for fold service
	Native declers 30	0 30	1 25	seers 2 \at re ductors at 2 2	l)
3 Ammendion .	140 rounds per mun We gatef one 1 ,00 rounds box	2 13	151 5		7300
of Cooking atensils .	1 camel per company		Į	Pade remarks below	8 camele Tale questions
5 Entrench ng tools 6 Food for four days	2 camels per regiment 1 seer vita) per	0 74 s ci	9 10	50 packs and 50 shovels per regrants t	o can ele F de
tot mer	2 chts dul n un 1 cht gles per cht salt day	018,	86 11	120 mm at I see 3; clat tacks a day at one camel for 6 moutage	18 c. mels Tite 1 ugi tla dido m for l'ennel
7 Grs n for herses for two days		0 4	1 21		
	Total weight to be car red by regiment		533 30	Total Carnage	113 camels

[•] Under 14 cannel per company a lagi c size Hindoo any ment 11 e iliq 17 il hal vo Infantry vo hil sod ma ge unitess the nim only the chairbane—a d et winch if continued for any length of the world walf the a for set we are no. In addition, to above we life & in much be added 4 un checks for turns of a ch lip we 11 of wil all computing each short to have six eminement of 10 il for the world for Junual of serms, and the carm proquer Sound.

chest to have its complement of 10 f ics	Satting 60 A	THE REAL PROCESS AND THE	e cetti Se treferro pe	au co		
L cutenant-Colonel R. G. Rogers 20th Panjab Antive Infantry	(1)	Carriage for		220	maun ls	
Note Labies Verse recent?	(2)	29		488	,	
	(3)	23		524	,	
	(4)	ø		40	37	
	(5)	23		10	23	
	(f)	21		88	,	
	(7)	37		13	,,	

1	oot meluding transport &	e, for follow	ere	
Licentensat-Colonel F B Norman Comm ndang 24th Punjab Native	The strength of a Nati	ive in ^f antry ;	reg ment 1s as	
Intentry	Bretielt officers			8
-	Patra e officers			18
	Non commissione	d officers		80
	Buglers			18
	Sepes s			600
			Mannda	Cam le
	1 Weight		150	25
	2		. 199	58
	3		154	30
	4 Incl ded in log	gage		
	5 Weight not kno	r.n		2
	6		86	18
	*		3	1

Total number of camels

115

Legistrant Colonel G C Now erest Commandant Joth Astro Infantry

Four hundred and eighty mounds muc-and whalf eees, re-

		Hds	Seers			
 Сиг р сунциане 	,,,	85	221	29	earnels	
(°) Baggage		213		43	21	
(3) Ann milion		40	•	8	, or	20 mules
(4) Cooks gatesulz		40		8	n	
(a) Futrencling tools		10		2	12	
(6) Pood for four days		84	277	18		
(7) Gram toro		a	1	10	22	

Total III comels or if the reserve ammunition be carried on mules, then 103 camels and 20 mules

Should only carts be available, 32 carts of 4 buillocks each, at 15 manuals per curt or 48 carts of 2 buillocks each, at 10 manuals per cart,

manulas per cuto or paris of 2 panesons cient, to 20 manuso per cuto, until the required By regulation 1 complying a allowed for corriege of arms, &c., of sek men, and for hospital equipments, at service rate of 11 manuels, two more camels or one more cert would be necessary

I enternat Colonel H St. G Tocker 41st hative Indones late Supt. Transpect Trans 41st N I

With reference to this question, I have made out returns of the different cavelry and infantry regiments a battery of utililary, and compray of suppers showing the amount of carringe that would be required On one sile of the return is the present straingth of the regiment and on the other the indent for currage. Only the usual hospital establishment has been indented for,

all such transport with doolse bearers, &c , &c , have been comitted I have made out the in lents for camels and mules, as that transport carringe is in most use

Indent on the transport department for the under mentioned carriage for the use of a British cavalry regressit Date

_		-			
		Lbs	Carnola	Mults	Remarks
	Camp equipage, as laid down for field service in the 1 kms Baggage equipage as laid down for field service in the plains	20 202 28,040	D	4	Including medical subordurdes, office, guird, mess and hospital tents Including quirtermaster's stores, office allowance, signifing instruments,
	Ammunition service scale for all arms			30	methical stores, stable gear, arms of such at 1 canel per company, veters many stores, armonicus' teols
4	Cooking utensils at the rate of 2 crinels per battery, 1 per company	1,300	6		Including officers mess and cooking allowances and medical subordinates
ħ,	Batarurlung tanks at the rate of 2 carnels per regument	, 1	2	, ,	
6	Fool for 4 days for men (not followers)	9,004			Including off cers' rations
7	Gram for horses for 2 days (at 4 seess per diem)	7,498			Including officers' chargers Note —00,504 lbs =505,4 manuals, at 4 manuals per camel
	Total	60,854	17	34	=209 camels + 17=226 camels Add 5 per cent spare 11
					237 camels Total carriage repured 237 camels, 34 mules

Examined

Lees t and Quarter naster

Lient -Colonel, Com sandt 19

Present strength of a British catalry regiment

Date

	British officers	Nations officers	Medi al subcudi nate	Ran) and tile	\atım doctors	Officers Stivants	All otl or cump follo vers	Officers chargers.	Treop losses	I envera
Present	24		5	450		158	400	63	400	

Examined

Lieut, and Quartermaster.

Lent -Colonel. Commanding

Indent on the transport department for the rules of carriage regard by the ree of a holice caralty regenerate

		-	_=	
	Lbs	Concls	Vales	Remarks
1 Crup equipuge, as Ind down for field survee in the plains 2. Buggings as Ind down for field servee in the plains 3. Automation servee scale for all arms 4. Cooking utensits at the rate of 2 camels per battery, 1 per company 5. Entenching tools at the rate of 2 camels per regiment 6. Pool for 1 days for men (not followers) 7. Grain for horses for 2 days (at 4 seers per chem).	10,082 13,210 400 913 2,936	6 2	25 .	Including Native doctors office, goad, mees and hospital least. Including quantitamental stores, office allowance, anguallum including anguallum including anguallum including and per company, which as is stores, arm uncer's tool. Including officers' mees and cooking allowance. Including officers' rations Including officers' ration
Pranting				mules

Local and Quartermeater

Communding Present strength of a Maine capalry regiment

		Date									
		British officers	Native officers.	Medical subject putes	Rask and file	Native doctors	Officers cerruits	All other camp followers	Officers clargers	Troop lones	Remanes
Present		8	11		350	2	51	270	17	3.0	

Examined

Lieut and Quartermaster.

Launt Colorel, Commander g

Indeed on the transport department for the under-mentioned carriage required for the use of a British tufanity regiment

					Due
		Lbs	Contrib	Muler	Rr sales
1	Comp equipage, as land down for field service in the plans	21,096			Including medical subordinutes, office guard, mess and hospital tents
ā	Buggerge, as laid down for field a ruce in the plans	22,680	11	1	lucla ling quait rinaster's closes, office allowance, signallan s instruments, modical one stable acts, arms of sick at \(\frac{1}{2} \) camel per company, aimoures tools
3	Ammunition service scale for all			65	
4	coms Cooking intensits at the rate of 2 cimels per batters, 1 per e mpany	1,100	5		Including officers' mess and cooling al- lowance and medical subordinates
5	I utrenching tools at the rate of		2		
G	I of for 1 days for men, not	11,780			Including officers' rations
7	G un for hors s for 2 dees (at 1 ~25 per dum)	90		٠	Including officers' clargers Aute —of ,702 li = 2705 fg maunds at I maunds per camel = 177 camels
	Total	56,702	21	65	+ 21 = 195 Add 5 per cent sparo = 265 cm cls Total carrage regund 203 cands, 66 miles

Present strength of a Br tish t fa 'ry regiment

Sandarda - Sandarda -	Brt h offcurs	À i re offi ers	Med cui subord nates	Pank and file	Sst re doctors	Offic rs servants	ill o ber er ap- follor er	Officer	Treon Jorses	Readpes
Present	20	.,	б	600		38	98	6		

Examined

Lieut and Quartermaster

Let t Colorel, Cormand g

Indeed on the transport department for the ruder mentioned carriage required for the war of a Native infinity regime t

		Lbs,	Camel	5 Mules	Rehards
	I Cump equipage, as laid down for field service in the plains	10,810	3		Including Native doctors', office, guard, mess and hospital tents
:	Baggage equipage, as laid down for field service in the plains	15,190	5	2	Including quartermast is stores office allowance signalling instruments medi- cal stores stable goar arms of sick at I camel per company, armourers' tools
8	Ammundson service scale for all arms			70	
4	Cooling utensils at the rate of 2 camels per hattery, 1 per company	400	8		Including officers' mess and cooking allowance
5	Entrenching tools at the rate of 2 camels per regiment		2		
0	Tood for 4 days for men (not followers)	0,034			Including officers' rations.
7	Grun for lorses for 2 days (at 1 scens per dum)	64			Including officers chargers Age —32 501 lbs = 400 , 5 maun le, at
	Torac	32,504	15	72	4 manuals per council = 102 camels + 15 = 117 councils Add 5 per cent space 6
					123 camels Total curnage required 123 camels, 72 males

Examined

Lieut and Quartermaster

Li ut Colonel, Conrignding

Present strength of a Natine: faning regiment Date

-					-					
	Peri h oshtern	Native officers	Ned cal phords price	Runk and file	\ tive doctors	OTerrs serval ts	ill other comp- follone s	Officers el ac _o ers	Trosp lio's s	Pe <i>l</i> izer
Present	8	14		690	2	33	48	8		

Exammed

Inext a d Quartermaster

Lunt Colorel, Commanders Indent on the transport department for the under ne twomed carriage required for the use of a lattery of artilles !

_		Lbs	Cunels	Mules	Remares
1	Camp equipage, is lad down for field service in the pluns	9,198			Including medical subordinates' office guard mess and hospiful tents.
2	Bigginge equipings is laid down for field service in the plains	10,890	3	1	Including quartermaster's stores office allowance medical stores, stable gear, votermary stores
3	Ammunition service scale for all				
4	Cooking utensils at the rate of 2 camels per battery, 1 per company	390	2		Including officers' mess and cooking allowance and medical subordinates
5	Entrenching tools at the rate of 9 camels per company				
b	Pood for I days for men (not followers)	755		1	Including officers' rations
7	Giain for horses for 2 days (at 4 seers per diem)	1,680			Including officers' chargess Note —2.2 113 lbs — 276 % munds at 4 maunds per camel = 09 camels
	Topal	22,113	5	1	+ 5 = 74 camels Add 5 per cent 4
					78 camels Total carriage required 78 camels, 1 mule

Lxammed

Major, Cor manding

Present strength of a battery of artillary
DATE

Examined

Major,

Conna all g

Indent on the transport depart need for the under no itened entringe required for the use of a company of
Suppers

		I'pa	Ounels	Mule<	Remarks
1	Cump equipage, as laid down for feld service in the plains	8 276			Including Native dectors', office, guard, mess and hospital tents
2	Biggige, as hid down for field service in the plants	3,940		2	Including office allows ace medical stores, stable gear, quartermaster a stores
3	Ammunition service scale for all			9	
4	Cooking utensils at the rate of 2 camels per battery, 1 per company	150	1		Including mess and cooking allowance
5	Entrenching tools at the rate of		2		
	2 camels per regument Food for I days for men (not followers) Gram for lores for 2 days (at 4 sears per diem) Total	1 956 39 7,051	3	11	Including officers' rations Including officers' chargers Aste - 7,054 II = = 55 .55 manufs at 4 manufe par caude = 25 critatis + 3 = 27 camels Add 5 per cent spure= 1 28 camels
_					Total corruge required 28 camels, 11 mules

Present Strength of a Corpus, of Suppers

	Briti li olikera	Native officers	Med cal subtrain nates	Ptnl ard file	3-2+178 decions	Officers restrate	All oil er evnsp follower	O'hoets charger	Troop hores	Penaers
Pre-ent	3	2		120	1	13	47	4		
TO THE PARTY OF TH	-			-						

Copterr, Commanding

Major A. C. W. Crookshink Communiting 3 and Pronects I do not rept to this que tour as I am a member of a committee which is those goly a siking all the details out, and which in its report will fully answer this question.

The complite becarried by a Neirre regiment would be 620 minutes in the transmit of transport necessary would be 41 claphants or 63

Calenal R Blar Communicag 3rd Puspel Native Infantry Licelature Colonel F T Bun India; 4th S line.

bullock carts

NATIVE INVAVIEW, POWARE PROVIDER PORCE

Total time and 750

There are the 100		
	Manpés	Camels
I — Cump compage 2 and 4 — Buggage and cooking wheards 8 — Announton, 119 rounds per man 5 — Lichtenking tools 6 — bood for four days 7 — Grun two days for 40 regionental mules and 50 canada	112 168 172 8 93	28 42 43 29 23
Total	5611	141
Regiment Leep up 30 40 males which equil		5» 20
Total camels		75

Therefore it would till e sixty six extra camels beyond the carringo fept up to move the regiment

Color I W A C b Con undest fo b Madras Value Infentry The weight would be about 63,625 Hs to be carried in 794 bullook outs and 6 cookes for medicine checks as per endoced statement This is for a Native infinitely bettaken up to full stigneyth

Burgage occording to exist grazulations to be case of an ecrator in the part at of It d s	We git in list	No of cuts som mi	No of tooles required.
Cump equiping as had down for service in the plans Bigging mending medicine chests hospital equipment, &c Ammunition service and for all ranks 200 sounds per man,	11 970 20,615	15 82]	6
50 of which are cruid by men in pseches Cool mg utensils at it o rate of 1 cruel (or 4 card) per company. Introching tools at the rate of 2 cruels (or 1 cut) per regiment lood for 4 days per urin, at the rate of 24 lb	11 250 3 700 500 7,130	18 4 1 9	
Pot il	65,035	79}	6

The trusport should be of the land used heally, which in the distinct of North Arcot is easis with bolled's ind cooles

Colonel W Busicement 4 b Bets	Butish carsby	16s
bay Laffes	And we carsby cours their o an	151,200
	Butish infantry Native infantry Campany supers Tield battery	192,490 79 906 11,666 86,490

		British Cavahy	Native Cavalry	British Infuntre	Native Infantay	Field Battery	Company sappers
(1) Camp equipage (2) Baggage (3) Ammunit on (4) Cook ng utensils (b) Intrenching tools	Country	75 67 7 8	Carry then	100 97 24 4	22 55 19	28 23 1	6 8 2
(6) Food for four days (7) Gram for horses		} Commi	ssariat wil	l answer t	his		
Elephanis carry Camels Mules Country carts						1 200 100 200 800	lbs ; ,
Colonel H H James Commanding 10th Bombay Nairre Infantry	(I) (2) (3) (4) (5) (6)			Camels 42 106 31		in men s l	
	(7)			{	officers	baggage	remared III

It would be better to have some of this carr age stale instead of camel, if possible.

Mules or pan as for spare ammunition, entrenching tools and means baggage, sufficient for light order, say roughly half, or 200 mules in place of 100 camels.

200

Col J I W bes Comey Genl Bengul.

Parposes for vel ch carri go s required	Battery of artillery	Reg ment of Entish caralry	Re ment of B stock unfautry	Regiment of Nat ve niantry	erlibers of Combania	Regiment of But o cavalry
Camp equ page of off cers Camp equ page of men Camp equipage for comm s sarrat victuallyng catablish	20 28	68 85	75 147	26 20	10	26 11
ment Ragguge of officers Baggage of men Ammun t on Cooking utens is	1½ 10 29 2	2 35 81 11 6	2 41 115 37 8 2 22	8 304 27	2 19 3	9 1 11
Entrenching tools Food for four days Grum for horses for two days Spare at 6 per cont.	10 5	12 25½ 16	22 1 22	2 18 1 ²	3 1 2	11 21 4
Total	114 570 mds	3164 — 1 582 <u>1</u> mds	466 ≈ 233°1 mds	144 = 20 smus	.61 — 1821 mds	871 = 416 mds
Gram for bullocks for two days Engeneeing equ pment Arms of s ek Armourer s tools Field forge Vetermany stores Paul as or troop stores If it here blant ets	2	9 - (m 22 - 22 36	12	4	20 3	
To the beam ess Scales and wag I is Bullook gear Musee horoess comm s that supplies (daily rations ovens) Spare at 5 per cont	3 4 1	9	10 1		1	
Total	19 == 95 mds.	63 31°½ mds.	234 = 11 [‡] mds	4 = 20 10de	213 as 10 4 mds	
Griad Torit	133 = 635 mis	390 ≃ 1 900 mås.	490 == 2 450 mgs	148 = *40 mis	58 = 200 mds	8 1=430 mds

		(1139) [Appen	dız IV
Rec ent of Nata e ca alry	Los Orgons	2. A constant of the constant	
_	antry Compa 3 of supper	2 2 1 W 11 necessory (1416 - 12) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	B tsh faulty Lomentof Natro m	## Constraint 1 con	п
	To ment of U t ah exwiy Regiment of B t ah faulty To ment of Vat ve minuter	FOR OLYMPIA CARLON CARL	Mi dar No prigge True poof Re 1 st on True III Ni dar So No 117 of 18 7 Quart Y tee G n O No 117 of dar a Sun's 1 fl Court So De So So So So So So So So So So So So So
	Tat ory of ut liery	Constraint Con	× 1
	Di 1061 1	6	n \$3

	(2220)			
Regiment of Native cavalry	Pon Orproras Caralta 1 communicate (2011a) = 6 7 control and 10 co	For 13 Netwe officers and data mean 45th mean 45th men 15	Tor 430 Netree officers rud men at 1 seer 3, othlie cach X 4 days = 06' 11 manuals	Maksons
Combany of sapport	Pon Orricoma General 2 officers Town Line of the concession of t	Fo. 114 men. et. 50 vonnde coch = 9 120 vonnde 14 3505 vounde (Sinder) pen cunci 3 6 1878	Geneles Divergent non com the second officers of 20 miles of 20 mi	Paragraph 614 Bongal Army Regulations. Forestraph 503 Bengal Army Regulations
Regiment of Native sufautry	A officers to more the more of	17 or 1874 17	For 711 n childs or 86 maune	Paragraph 611 Bon
Pegment of British manury	Ton Obvious Camels 1	Tor S78 men ab 130 rounds each=1138 Sto rounds at 8,000 rounds (Mm. nm Henr) per camel 89 1144 de Bengal Army Regulat A per seules in G O No	Cornels Cornels Cornels abordunites—888 men nt.24 lie echt.1 dyn=880 lie eth.24 dyn=880 lie eth.24 dyn=	_
Regiment of British eavily	1	striff summer and striff summer striff summer striff summer summe	For 454 men and 5 mede cal subordantes me 160 men at 2 t lbs sech × 4 days = 1 500 lbs - 57 113 manage	Paragraph 502 Bengal Army Regulations
Battory of artillery	Pon Orytoina Camer,	G G For 9 240 A Per scales as G O No 347 of 1874	Tood for four days Per 150 men et 24 lie Cracis myster 100 list = 20 Rum et 1 1 rem codaxt dyy = 505 drawn et 1 250 drawn per canel 3 73841	Paragraph 592 Beng
Detail of purposes for which carriage is required	. Dispussion	Ammuniton Cooleng utensils E trenching teols	Food for four days	

Paragraph 553 Bengal Army Regulations

			(11	41)
Camels Jor 77 officere that is not all for members there are seen seed X2 days so 1810 seens = 120, 23, namels					
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^{*} Includes one militar maste

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Closel T H 411; Deputy Commissing the rel Heapt The following distement shows the weight to be carried by regiments of British civility, Astive civility, Britis indicately, Astive influity, britisty of field utility, and company of suppers and miners —

Probable result to be carried by the under section of requests of fires at strength for section in the fluxs of Islan

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 Ammunition (service scale for all arms) 	13	12	19	39		6	Calculated at 200 rounds per man for using try and 100 for cavalus, paragraph 1101 of B. A. Re gulations
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I atranching took at the rate of 2 cancis per regiment		,,	2	2			Fixe mules with suitable kayawah per rega apat, as jika recent circula
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Colonel V I Brander Officint ing Deputy Commissory General Colontia

See the following statement -

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Colonel G J Dalrymple Hay, Fide following at Prantmer of Commissionat Ac-	atement —

Pranuer of Commissariat Ac-

Statement shewing the wordst to be carried and the amount of transport required by regiments proceeding on field service in the plains of India, under the following headings

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Major M A. Row and on Exam a r of Commissment Accounts Bomb y

Pide following statement -

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(2) Baggage ditto 1 ito	08 400		000 د4	30 400	8 000	4 200
(3) Amm in tion (serv ce scale for all arms)	10 647	J 080	18 4 9	1 ₀ 511	63	2 095
(4) Cooking utensils at the rate of two e nels per batter, and one pe company	2 400		\$900		800	
(a) Entrenching tools at the rate of t o camels per reg mont			800	800		
(6) Food for four days for men (not fol lo ers)	11 939		17 592		o 102	
(7) Grain (for horses) for two lays	8 800				4 000	
Тотаь	90 386	5 082	14º 6º1	so oll	3 365	8 095

Mege W Lu Wardt, Desu y The follow og table gives the required information —
A fint Germ sarj Ge m
Umballs

1 Camp equipace as laid down for service in the plans

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	716	5 1108	ars	Camer
Fig. st ff serve nts tents at			ool at 11 can el ca	61
Lores Luropean printes tents :	t 10	30 = 1.0	90 at 2	98
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fluty s v European privates tents:	nt 10	30 = 357	0 at o	70
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For $\omega \in British \circ f \circ try$
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lor one British evenly 190, at a seer =109 mds at 5 mds , 22

18 How fu could the grass-cutters' pomes in a civalry regiment be made available for regimental transport under a proper system of organization ?

Fout General C.T. Chamberli v on: late Con men log Outla De s

For the list two years I have been codes couring to press upon the atle than of Covernment the need for lettering the condition of grassentiers in Indienes and en als regiments, and I suggest that my letters

toures at there was required, and a suggest and my actors
be up the die from the tij timelegeners dolle. They no ver much
They reset busines as sangly meshendle. They no ver much
mad pent. They are almost all m did some to the heavy losses in
panner, and the only wander will it flay do what that, do

I strongly advise that the men to registered as Government arrands, and that the ponies be

brought under a gemental de expline authoritate of more to being properly be loud clothed.

I do not advocate the State providing the pouncy as Limon that the grass cutters yould take less one of them if it is a section of ∂u is 1-inter-deed 1; nead 1; and only to experience of the minimum of ∂u is 1-inter-deed 1; nead 1; and only to one from _reversition, whose pry should 1 is now one for proposed on my letter dishelf to showed a letter-deed of none would be pured whole, not then (and one than this length to know cleaning, with λ is of the horses for which great v is lower 1 magic to creme 1 by if then v is non-done in the fixing if or virtually a second of the fixing it is considered by the fixing v is non-done in the fixing if or virtually v is non-done in the fixing if or virtually v is non-done in the fixing if or virtually v is non-done in the fixing if or virtually v is non-done in the fixing if v is v in the fixing v is v in the fixing v in v in v is v in years bus I can the only efficient branch - regards transport

Is found C of N T Rele. Index a proper organization gree-cities' point might be made one to omoding School D in me tweful for trusport purposes. See what is done with these powers 6 04 m a regiment of Natine emply

(1150)

L out General J Forbes Com-

Major-General A. W. Mac at re c.s. Commands ig Hyderabud Sub

s diary Force Mujor General R O Bright C B Commanding Meerut Divis on.

Major General H R. Browne, Commanding Saugor District

Major General J. W. Schne der Com mu ing Austhorn Din s on Bombay Aus

Beignd er General G Burrow Quarter Master General Eo abyy Burrows

Br gadier General P C Kemp ster Commo d ng Coded D stricts

Bugad er General T J Marray en Moolian Bugade

Colonel J A Tytler ou, vo Command og 4th Goorklats

Colonel J Mucdonald Secretary to Governme t Bon hay Mil tary Department

Colonel A H Murray Deputy Aug in t General Royal Artille y an is din

Lon tenent Colonel A. C. T. Hopp Deputy — Quart r Master-General Bombay

Lentenant Colonel H A I tile, Offic at g Depa to Assistant Qua-ter Master-General

Vajor A A A A 1 leel Deputy As istant Quarter Master General

For many reasons I consider that this arrangement would not be fersible

No grass cutters' pomes are maintained at the Government expense in the Madras presidency

In a European caralty regiment, were tents provided suitable for a pony lord one pony per brase would enable the regiment to move et a moment's notice provided officers were obliged also to keep up a march mg establishment. Some larger tents for hospital purposes would have to be carried by the commission and also the sque ammunition. A Native creatry regiment with the same establishment of pontes, onehit to be entirely independent of any help from any quarter

I could not recommend the proposal These ponies have exceedingly heavy work on a match especially

They have frequently long distances to go and heavy loads to brug home, any attempt to utilize them as baggage animals in addition would lead to a break-down in the supply of the regiment

There are no grass-cutters in the Native cavaliv regiment in the northern division I should say not at all at could handly be expected that a none

heavily loaded and marching 12 or 14 miles in the morning would be available for binging in todder during the day Grass cutters pomes of British cavalry and Native caralry (regular) would only be willable for earrying his gent, and theals if req ted to bring in grass, otherwise available for earrying in addition to has

I cannot give an opinion as regards a British cavalry regiment, but

m a Native corps they could not be more utilized than at present Having nover seried in a N tive careby regiment, I am unable to reply to this question, but I do not see why they should not be so employed

I do not think that the grass cutters' pomes can afford any more ad than they do at present as regimental transport

I do not think this is not isable or feasible. My experience tells me that no o garazation will be found practicable by which the grass enters pomes can be utilized for regimental transport

Grass outlers' pon es in a cavality regiment, both in time of peace and wer nic sificiently well en played in this lead in the unit and could not I consider the made available for transport e cept in his in A it we can also regiments a here, they are kept up in sufficient numbers for transport work

These pomes could be doultless so used, but their numbers would have to be in acly increased above the present complement

I do not that the grass cuiters' pomes could be depended upon to do much more than is at present demanded from them. As it is they release the regular transport to a continue extent by carrying the hedding &e, of the grass entiters and various odds and ends. When the march is a long one, they frequently on it loads of grass from one eamping ground to mother. Otherwise they have to go out for gassafter the arrival of the regiment in camp which they would hardly be able to do if they had to carry loads on the march | They would, more over, frequently be delayed

Altogother I think the grass cutters' pomes are sufficiently hard worked bready

Capta : M. J. King Harman Deputy Assis aut. Qu. rf. r. Master Gen. rul

Let proper I-I must premise by stating that grass outlers' points are long for some unaccountable reasons, used for transport, but Ivill on lev out to show how this e n be done To commence with, the ponies should remain, as they are, the projects of the men

All large Lury can private tents should be discontinued for all arms.

All ranks should be served out with mule is letters. Lach your should be provided with a

leather 121 complete, as a commended by the Simla committee in July 1879 in addition to his Present a pun nent
Of the lue of march the points would carry two manuals each, and grass for the horses would be

pureb sed by the commissional In outcomer a the mea would go out as u oul for gases, but aloud time number of the ponce be required to carry the lagging, &c, of a troop or squard nordered out for a few days' mu among with the more thic column the gas a definent oning to their also nee would be supplied by the commissonat However, supposing a regiment marching on service, full strength, only employing points or mules for carrage, they would require an additional number

95 officers at 1 manual ray	eh.			***		***	7
, teuts light ser	VICE						. 7
450 all ranks, baggage at-	i maund ear	h		• •	**		114
1 12 jals at 30 men each		٠,)	
2 ,, for guards				149		. }	- 55
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Staff sergerats and spothees:	nes us 7 tear	ls of	120lbs e	ach			. 5
Ammunition		٠.					27
Cooking utensils				***		111	6
Gratt.		•			• •		
Hospital stores		٠,				14	10
Quartermaster's stores	141	***		***	100	>**	15
Forge, &c	***	***			45.1		1
Officers' mess tents		***		11	**	***	3
Stable gear		***		111			
Veterinary stores	**	***		***	**	**	3
Mes "	1.1	***			***	146	4
Followers' tents				, ,		***	8
,, baggage	144	•			••	***	50
S.c			8.0				

Spare Altogether the regiment would require very nearly double the number of ponies or mules that

they have now, or say one pony to each horse

In contonnects only half would be required to go for gross duly, so the other half would remain and the men would take the place of the present areas

name use men would case the price of the pre-cut system.

Considering the fire more stands by creatly regiments in times of period, it is very doublful if
this plan nould be an conformed one. But in eve of two its advantages would be enormous

2nd proposal—To abolish all grass exteers with British cavalry regiments and batteries of artil-

lery as such and to distribute them, as far as they will go, in the proportion of-

80 or 100 to each regiment of European infantry, 50 to "

" buttery of artiflery, 20 to

regiment of Native infintry, 40 to 40 to "regiment of Native infinity, commencing with the troops forming the northern viny corps.

These to be attached to and to be under the sole care of, regiments and batteries. To be the toperty of Government, the men to get Rs 5 a month pry, using to Rs 7 The pomes to be feel

by the commissariat To be paraded, loaded and marched out once a week with bragage and ammunition of that portion of the regiment or battery forming part of the movemble column, and at all other times to be employed by the commissariat department in currying grain, grass, ritions, beggage of station guarde, &c , &c My reasons for abolishing the British cavalry and artillery grass-cutters are

less - Because the sume quantity and quality of grees can at all times and places be purchased at a less cost to Government than the pay of the grass-cutters, so long as they remain in India, and

a ness test to conformation can use pay or our preventions; so roug as early remain in amore, the beyond the former they are almost neckes, under the present system. Sad —The value of land, and consequently of gross, has so mancasely mercased since regimental grass outless near first established, that the people of the country will not permit grass to be out and curried may will out payment. This leads to constant fights and disputes, which entail trouble, expense and hardsley on all concerned

3rd -The diminution in the number of followers,

Amongst tle many advantages are the following —

(1) The saving of all fature trouble and expense connected with the supply of grass to British evailty and artillery, while at the same time taking a heavy burden off the zemindars and creating a new and profitable trade for them

 (2) The establishment of the nucleus of a transport trun.
 (3) It will be the means of thoroughly training officers, men and mules or pomes to the work required of them on service

(4) It will save the expense of keeping up camels, &c., in emforments for local commissional purposes, more especially if each station was provided with a few light platform earls adapted for the ponies

Each infantry regiment of the Panjab frontier force has now 40 mules; as part of its establishment, and most certainly all regiments and butteries of the northern army corps should be provided with regimental transport also

In order that this shall be of real use, each regiment should have in its possessiontools

Mule sulcetahs for lats Mule laymahs for cooling pots

Shags for ammunition boxes

And m the regimental store one purially or cross belt and one short sword for each mule dener

* Sugled pair 52 x 20 week 1 g 64 manula

[†] And 65 example except hit two regiments. Abbeitabled the Lau 160 males as the counter there is no so ted to comple

Each driver should be given yearly-

l jumper, 1 pan loose trousers,

l puggree l pur latties, l , shoes

The jumper and trowsers to be of klinks drill

These old grass cutters as they die or take pension to be replaced by men entertained at the rate of one for every two minules, and their points purchased if good enough

I reutenn ri-Color el R Bl ndell Sed Hussars

The grass cutters' pouces with the 3rd Hussans now only number 12. and would be required to move the grass culture. I think very liftle frimmore oild be got out of them. If grass-cutters us done way with, there would be no points of this sort with a regiment

L e vic 10 i Color el R. S Cleland 9th Las cers

I do not see how the grass outters' pomes could be made available, as they early the grass to be consumed by the horses

Levie an t-Colo el Lord R. D Kerr Commanding 10th Hussens

The gives cutters' pomes of a cavalry regiment could not be made avulable for transport of baggage for the following reasons -(1) Gress cutters' 1 onies are not in them-class a necessary component

part of a regiment, a double grass cutter (jornalish) represents by a private arrangement two single guass cutters, and for my part I should prefet to go on service with only single grass cutters and no jones, as a

more effective urrangement

(2) If employed as a bagginge animal, the persy is not in a f't condition to do his legitimate work at the end of a day's march heavily laden

(3) The class and stamp of guess cutters' pomes as not of a sort to be fit for the diadgery of ber

ing a long day's dead weight buiden in addition to a pack saddle

(4) His employment on this worl would recessitate the carrage of a large amount of extra forage for the horses of the regiment as well as for himself

(5) The grass-enters' pones are praise property (i.e., then ewn), and no dlowance whatever is made by the State for maintenance or labor done

The owner or jorawallah grass cutter merely agrees with the captain of his froop to supply daily

guass rations for two horses his means of obtaining guass and infilling his squeement are his our in (6) If molesor points the property of Government, we estuphed to reguentis and the entert in ment of quaraflukis relokated the same despotent as to the cortact oning of the annual would held good, for no amount of feeding which is likely to be rethoused in the field would keep annuals doing double duty long in working condition

When the idvance from Gar damak on Kabul was in preparation, owing to the break down of transport I prepried the joines of the 10th Hussars of 1th or portion of them, to perform such work transport I propriet of a journel 1 to Joint Aisserts of the or portion or men, so perform some war is begging animals as they might east be complished for that this year in emergent case under peed in curumstances, see. that the jasses through which we were to force our lay afforded no gars, coasse quently the poince would have no work to do, but were free to be cuttient for the moment in any per-

sible way for the publ c good Le teum t Colonel I C Le-Ques e 12th Royal Laucers

My regiment has no grass cutters' pomies. I do not see how it would be feasible to employ ponics, such as mer troned, for a double purpose

Major J W Ciapla, 8th Hus

I consider that very I tile resistance from grass cutters' pomes could be obtained beyond the currage of line gear, picket jost, &c

Major E A Wood 10th Hussage

I would draw attention to proposition contained in following ' Notes on Transport," which I wrote with a view of making glass-cutters' pomes available for this purpose —

NOTES ON TRANSPORT

It was most remulable that, lately, on the return of certain regiments from Afghanistra the hired mules and points were in better condition than the Government mules and points that were handed over to regiments

Why was this?

That can easily be answered

The hired mules were tended by their owners, who had experience in managing them

The Government mules were tended by any cooles that could hastily be hared

These men had no meterest in the animals under their charge stole then grain, did not care

These men 1-4 is numerican at the annums under them druge stole them grams, and not care
whether the numeric war galled or not and was the most difficult men to manage.

The reguments (Dunporm) had little on no previous knowledge of the preduct men and previous of bargers annums. In severel cases, the annums annual as the severe discovery of targets annums. In severel cases, the annums annual as the severel of the regument to which they were to be sthanked—frequently on the ever of a march before
down. What was the result? Loads hadly preded and animals imprecally and other very meab
overcloseds, thereby abouting the Dunpoen sold on the vined untage to the N ires troops of the broats of
these and others who was measurement of the results and harrys?

force and others who were accustomed to the pucking and management of mules and baggago anımals I think it will be agreed, on all sides, that our transport system is far from being what it ought

to be During the recent cumpugn animals were borght by committees only to be condemned by fresh committees on reaching the front Saddlery was badly fitted and I knew of a case where several Luggage unmals passed at Peshawar by a committee as fit fo service had a lay or two after the r arm all at Jelialitad to be cast ly a committee as unfit for service and yet these an mals had not ca ned p any load. Officers who voluntee ed for service and who were attached to the transport service might have worked me tizerlou ly but this possible that their experience of the manage

ment of baggage an male was but very of ght.

must ob together an vous was tout very at gent.

It is given a that if you have not view sell transport service during times of peace you cannot expect to a garacte of unity are I we bit suggest that all fransport aloudd be done under regressivable and the spect of the peace of an male for reserve ammunition and puckyle a contain number of days' rations, and f small tents nore I kely to I e used on e g ordered sud lenly on so v ce according to the s tust on of the regiment nows leavy to release or a government and early on so we cannot go to a second of the contemporary baggings an mais for the contempor of the same of the form of any most feet is are in the posses of no two regiments a sufficient in tall or of canada for the carings of the same should always be attached to the regiment and although it eas an making it when not required for revincintal work or price or contribution and investigate to the animal part of the state of metric re-ordered track of principle of fire matter in 100 fig fire in mile in all installing up for the loads is tead to generally table garvier in realizable to the effective principle of the contribution of the state of communiting of teas of regiments who would be table to be effectively as the contribution of the state of th mg to them as well as in the celerity and security with all chither hits tents ammunit o &c

ng to toom as well is in the colourly who extently van a in thour as ones normanto account on only the made up to be an extended to the country and extend points of the state anneal congular on all extent body be 1g properly mode up, an is excustly and extend p to the total anneal as a fact that is a sum of the state for the country of extent statement at Rurel P out and Seather a good to 1 mg/s 1 cutvel of the a mad of the total green as the space a to a long it. The comment to releter as if if the reg ment could be proved into m to sea de ently numerous to cutry the trible of the expense to the space as the

think the State ould be better served and with very I tile mo e expense in the end if the grass cattors went at the over- own of other seven and victor and very tenth and extended and very tenth and very a state of word at the seven of the seven and the seven

It las leen a god I know that it s arrangement leads to difficulties between the commissar at It is a certified the second and registered as a communing officers of greents to which ther ranning soil to long and that probably veuld coast to a light degree with commanding officers wife one e ground of the cy dition of the an male under the relarge and who would be up to the 1t at the ranning soil to the cy dition of the an male under the relarge and who would be up to the 1t at the ranning soil to the second relation to the s were unfarly vorked wien taken away from the reg nent but that would be lut a small or ther compared with the gan to the regiment suddenly edered on sevice of being a possess on of a complete transport sevice the characters of the attendants of the annils known to their troop officers the men reconstrained to make up loads and to distribute them evenly and to secure them the control of the second of t For a cavalry regime t 400 strong n the field (as that s about the strength or e coll really

For a savalry regime 5 400 strong a the field (set of a shout, it estimugation on on 11 revity calculate only ong pick 4 that so it the mattern suggested for baggages of men on at the Cabul culti-tagether with the regimental number of pind also summ at our reserve farger and reterming stores more if tools for read you formatic a stores better the figure or as for more or ground reterming stores as that we fill only the section of 1 y then maker of type 5 or as for more or ground refer or early 50 miles would be required. The grass entite is pine as for 400 former to left unto the 500 miles would be required. The grass entities a pine as for 400 former to left unto the 500 miles were obtained to the first set of in tipsuddist (17) a word last reserve or amount soon in the 500 miles 500 miles 100 tores (9) 'urmoue's (1) qu' riermastar's stores (14) Thus only tilese 03 add too at mules vould be required to be enabled to move the whole of the

regimental baggage at a few hours' notice

Capin n J A S Machenze, Pili Lan no

I am of op a on that the grass cutte a pones to perform the r dates; qually so idely! mg m grass else after a more lad transcript my so idely! mg m grass else after a more lad transcript my so idely! mg mg grass less as the first and the market may be more from the halt ng 11 ec. Dung the late operations n Afghan sta the gress cutters' pou es currel the live gear g in ling malls &c which was a great tax on the strength and n | rel the 1 eff c ones

Mye Frehn 4th Role

It seems practical ic but I um unbie to unsue the question u deta 1

Maj II g P Po. see 1º h Fost,

They are all ays util sed to the atmost during it march of a evenly regiment I to not that that anything rould be granelly nut od ic ng then into 1113 system of tra sport

is J H Cambil 30pd

Refe s only to car all y

M yo J D Dyson L ar e Sitis R next.

The guides earnly sy tem some in admirable one mid to offer a excellent exan pl

Appendix IV]

Colonel C R O Errus Com manding Royal Artifle y Mecrub D v ston

I thind they could be much more profitably employed in their legi-tamete word of him, mg in forage for the bores, whether for the com-missional department or for their regiment direct. They are not leasts of great buiden

I cut. Col I Keichen B &

I think not at all

Manor Bertse Hobert B & M h ture Secretury to H s Croco the

I doubt the ordinary stamp of grass-cutters' pomes being of much use, besides, they are private projectly, and to take them up a under a proper system of organization" is certain to cost money, which might be better lad out

Major H. C. Lowes, Commanding I 1st Royd Artillery

I am of opinion that it would be better to abolish them altogether and male the grass cutters bring in the grass themselves, increasing their number if necessary

Major W W Murdoch Com ma lig E A Royal Horse Art l lory

With the present number of pomes they could not be made available When a car div regiment marches in an ordinary way the grass cutters' pomes have quite as much work as they can do to bring in grass for two horses

Were the number of grass cutters' pomes doubled, they could of course be made available but I lo not see that they would be of much good They might early the mon's kits, but could never earry big tents

Mayor T M Hazelugg Com mu dr g E 3rd Royal Artallery

Not at all It would be next door to impossible for the commissanat to supply grass and troop horses would starte. Added to this, the pomes are private property

Major the Henble A Stewart Communding I-C Royal Herze Artillery

If the pomes were the property of the State, they could doubtless be utilized to carry imagear and a certain number of days' grain. But I think it would be a very expensive an a gement, which economy would soon call for a reduction of after a short trial in time of peace. I feel quite sure un immense swing might be effected by growing grass and

cutting and stacking lay in many stations

Major C F harme Royal Horse Artallery

I think not worth considering The grass cutters at present carry a large amount of their own kit on them, and bring in very little grass on the murch. If lorded by the State, they would, of course, by ng in no grass at all, and would carry only I maund each, while, if loaded to their full carrying power, it would be extremely difficult to prevent the grass cutters, from old established habit, from putting their own hit and gress outcles from our established and in the front over the war normal membrily themselves on top of all, and so break down the ponce. If a better class pony were introduced and supplied, either wholly or in part by the State, something might be done, but I believe it would not be a cherp way

Major P Titel Gallwey B.A.

tents carried would make it impossible to use the ponies to any advantage Cump of upage is the principal loggrage in a British regiment together with the commissariat stores. In a Native cavalry regiment the small tents used easily go on the ponies Only, so far as they do at present, in currying the tents of the ears. If these pomes are here by laden on the march at is difficult to

I presume this allides to a British regiment. I fear the size of the

Lentenant E C. Waso RA No 4 Hazara Mounta a Battery P spab Frenter Force,

expect them to go out for grass, as they have to do, on univing it the eamping grounds

Colonel O Wilkinson 2nd Beneral Caval y

As the ponies would be only just a ffecent to carry the men's kits, I do not think they could be utilized in any other way.

Colonel H Gough Commandant 1°th Bengal Cavaler

With the exception of Birt shofficers, and the carriages necessary for reserve, ammunition and Government stores, every Bengal cavelry regiment has its own regimental transport. But to show how far it can be util zel, I will quote the fact that at it e period when an advance on Cabul was critical the two regiments of Bengal cavalry, with the cavelry is gride of the Kuram intee, not only entirely supplied their own regimental transport, but were also prepared to carry supplies and reheve the commissariat department to a great extent The gress entters' pomes of British cavilry regiments are of little or no use, heing too small and weedy for carriage purposes

Capta n.M. O Gerard 2nd Re

They should certainly be utilized for British corps as they are already

for Nature creations for service become the property of Government,
The former should for service become the property of Government,
and, similarly to what was proposed in massive 16, a second Govern
ment tation for rations should be placed in charge of each grass cutter
ment tation for rations should be placed in charge of each grass cutter
that the contract of t

At present "carriage to the extent of that sufficing for a similar number of Natave cavalry is absolutely neglected by British

Brigal er General C J Godby, Commanding Ponjab Frentier

The grass entire's puny carnes the horse-genr for two horses, the men's kits and a small tent, and probaby is taken out for grass some distance beyond camp after arrival. Nothing more could be expected of the animal

Calcael T G Kennedy 2nd Panish Covalry

Under no system that I know of could they in their present numbers, namely, one between two men be made more available than they are namely, one between two men be made more available than they are for regimental transport. If there were doubted in number 1 e.g., one to each man, no earnel critisge would be required to move a evoluty regiment, but against the crimets and their attendants dispensed with

Colonel J Har Command up, 19th Bombay Loncers

n ist he set off the extra pointes and their saces The only pomes that are in a cavalry regiment are those belonging to the sowars, and these are employed on service to carry their tents and

L colemna Colemna C La Touche Commandant Poons Horse

baggage The grass cutters' pames in my regiment are already so available and grass curious points in my regiment are interest so vitations free are the importly of the men of the reg ment, not of the grass cutters. They are brought up for the approval of squadron commanders before being passed into the regiment, and in impretted by them once a mental. Silladous we had personally insponsible that

they are propely fed and otherwise kept in good condition and if a pony becomes in any way un serviceable, he is at once cast and his owner ordered to replace him No measures appear to me to be necessary beyond such as may secure the supervision above

undicated Les tenant-Colonel 7 H P Moleol race Command ng Srd S nd Heres

The baggage animals of the Sind Hoise are kept up and bought and replaced at then own expense so that with the exception of ammunition, legimental stoles and treisure they never leguire any Gov ernment transport. In this you may say then animals are made avail-

Major A. P. Palmer 9th Bengui Catalor

able under a proper system of organization, and the same could be done in other regiments I would advocate returning to the o'd system of each man Leeping

a yoay instead of one between every two souris as at present
Hithes were down, a regiment of Bengal evenly of 100 asbres taking
the field, would, according to the Cable scale, only require assistance
from the transport department to the extent of 3b camels, instead of 1 J9 comels and 38 mules as at present

Every carelry officer should keep up two baggage ponies, one of which might be available for the mess and be shared generally on the regiment moving

At present, officers are the only individuals in a British cavalry regiment totally unprovided with carriage

I am informed that the grass cutters' ponies in a Native cavalry regiment are so utilized

Colonel H S Object Command ant tist Anta e Infantry Colonel E Dandr go Command ing 10th \atms Infathy

I do not quite see the drift of the question, the grass cutters' tattoos are always used for regimental trumsport, carrying the whole of the men's tents hedding, &c as well as a supply of food on emergency

Colonel G W Fraser 89th Battere Infantry

Whether it obtains in the British ervalry regiments I crimot say, but I believe they are used for this purpose on the line of march by Native eavalry regiments

They would be very useful to convene the men's tents, &c, and

L entraint Coloud R G Rogers 20th Pangub Nat to Infanity Lautenan Colored H St. G. Tucker 41st Nat a Infantry hits Super teadent, Transport Trans 41st V I Unknown Probably for men's baggage and tents

They would so very western in currying one men's tents, way, and this saving a greated of regimental carriage. At the same time I am of opinion that the grass entirest points should be under the charge and supervision of the regimental trumport officer—the same as the other Very nearly, I should say, to the complete transport of the regimental

Major A C W Crookel and Co amand ag 32nd Pros term

Lit and indeed, if it could not do thus, the ponies should be left behind and the commissaint be required to supply longe. So far as I could be lee notice past cumpular, the Native carelry regiments had as many Centels as the infantry regiments and the pomes appeared to me to carry Occasionally I saw them returning to camp with bhoose, but the camels

tle followers and their kits could have done this woi! There being no forege whatever in wonter in southern Afghanistan the pomes nearly added so many more men and beasts for the commissar at to feed and were really a very points seem remove to inverse men run means not me tonomessa as to use men over run; a ser-sences sett in a. Thebili where grass is forthcoming, it could be cut and longth in by level bloor or f. tigue part es as it would be it home. The question of leeping grass entires to buying for gue a large one, which has often been dreen sed, but is north respening both for perce and un. Formerly Covernment merely paid the grees catters, now, in addition to this, they have to purchase land and form rills

Colonel H Bosserge Comu to d

Not at all All would be required for emying horse gen of conves, the traps of the cyces and grass for animals I entenent-Colonel I J Bosmell Commands g 2 of S kh Infantry I do not think they could be withdrawn for transport purposes with-out interfering with the efficiency of the carely regiment

Appendix IV]

(1156)

I t turn i Colonel F T Base by the 4th \leq 11s

I do not than there animals could be made available for more than the vest that, do On the Im of man is they cary the all of two owner and their lone moduling a day's feed, and are daily used to bring in gree, and sometime from long distances

Colonel S Fel orles Co ann 1 ing 2 id Bonoles, Neat ve Infants;

Grass cutters be to a certain extent already accounted with discipline by being under regimental control, they and their points to like made at of and form portion of the transport illotted to the come

Lenter and Colonel O V To ner Con maiding 2013 Beauty National Lefa stry Colonel J I Walles Counte svary

I think these might be utilized as they are in earthy regiments of

Ce eral lingui

the Prinjab force

Colo d. R. A. Moore Acts g Comm. set.) General Mad us Gruss cuttens panes are always employed on gruss day. If not, wanted for this dair, why keep them at all? They would in that eve only all to the in planeauch of a simp. It is on field source they me putscularly required for the collection of grass.

The grave-cutters' young could not be better engloyed than in langing in folic, for the horees.

Colored T H Shley Deputy Conness y Green'd Hengal lainging in folder for the horses

In this comparing grass criters and their ponies have been some than assets, they have been an new abrance

(lonel M J Brt ler Officenti g Depaty Con issury Gene al Calentia

I do not see how the pontes, who have to bring on hears loads of griss could also be employed in any other way. If as during the recent variet enapougn in southern Afghrunstru, there is no juste to be channel then of course these ponts could take the place of other long.

Colonel I Keer Deprty Conmany General Loor Crete

gage numbers corners of regimental baggings

Nover, I feat, as they have to bring in gine daily, whether the
troops are matching on not

I estess I Colonel I V II nt Doj f Avita & Commissary Goeral loughl

The grass sulfers ponces with Neture cavely against so used for conveyance of bygger on their of morth. But wit European evenly it would be more difficult to utilize them for this purpose at they would form such a small portion of the cognited treasport and the loads we meetly cunstitable being too bulky on themy. They might however, I a week for entiring of a certain number of days' gram to the houses.

Major M. A. Ronlandson Ex nu : er of Co. missarint Accounts Bombay Childy (Maine) in this presidency find their own carrings and it is not known low for the ponies are available for any duty but that of criping forage

Mayor W. L. 11 and Deputy Axs in at — Co un san 5 Ceneral U balls I see no reason why these pones should not be used for the purpose pointed out but, useful as these annuals are for strious out in the Rengl pursalence (in the Romban preadency hay be contracted for), they are gener lij for not be two uncumbanes on serves, as it is must feet that in uncamp is country, if forgue so the tunble, it can only be collected at the manchate vicensity of the ermy lines penes will greatly to the difficulty of providing sufficient food for early house in the field, are e, when they have to be field, as was found necessary hough only the transparent not them Afghanisar, they got his the inton of a charger, whilst for all purposes they are predictely unclear.

Captan T 1 Holday Deputy Assist t Comean General La bilan I do not think the grass cutters' points could be made of much use they are it contines where fodder is scarce obliged to cut justs ding the mixth. Nature carrily regiments include their gress entire's joints as part of their c image and they must often be moon cancell on consequence for that of the grass they would often use tung me

J H B H He Tray Co end S pen te dm t, Horse Breel g Oper to . I do not believe m grass cuttens, as I have already noted in reply to question 13 paper Ir. Horses bit if grass-cuttens are continued that should be double, "or dit he pouses might be realized arribble for brigging purposes. Still it must be borne in mid dhaf, as a rule, from povert, of condition they would be found of little use.

19 Would it be possible to organize a system of reserved transport which should be used in crul worl, or by inhabitants in time of peace, and only drawn upon when required?

I entrol Cred Rr D M St 1 kcm (1 m ling So tl th Mgl stu 1 ld lose

JE13 the term "and word ' sed in the pretion and among the envil appellation of the country is intended I do not than I de segestion as fessil to one. At the same time, such departments of the public erace envil and midt sy as employ transport below by middle of tegeomety leng until to use cuttle which could be an devaluable for

togeously le required to use extile y high could be in de available for military purposes in time of war. It is assumed that such extile would always be well cired for and

be tall ince for ser ce. Bitic og no zier of tan sport et bl. In nt. Iel sill remoc tie e ten o te on est spon of rio ble offers seems to me majetable. Experence tie pa en campu dous neon testiblit livel an mash a e always bite e ed for than those m the Gove ment se vice is mental the ex ted

L k a c n c 1 C m who c to had a make gg stoms ons e to jet on lå I emmot såvel a s to C m who c to loding an allo op te l d a c s lone linne and i leel n a cen e to e e d and il line of loding an allo op te l d a c s lone linne and i leel n a cen e to e e d and il line of lodine man i greenents and c r th soil re on Ite l at re to the ste of blue e y boulet l d the tro ble of collet or hen rack ling the term the had.

Re extense of all aps sgrad ly d m l leg the need of err ge fo any d tance for c l

It es ates no be be lad order embrigo to supply carriage for field service according to local

capabl s

It wo doe tanly be po ble. See my answer to questions 7 and Ω I u new W T H co en Counts d gS d D no

I ex cann t l'en rel I Pot Comp d on D ox I cons der that this would be imprict cable

M re cs \ \tau this is a text one to Go erment in cre we consistent babba arr trainer of cees I be lawn from the phs to so the count is nell a bone as one well be leaf use of the count is below it have no soldown being a cl Fjor a II

Adlional to a l

In comp a ce ti pang pi dof could fa memor lam No 161 fo the secta a to the a my or ration commette d ted lil Aug 4 18 9 I have the homor to offer the following

s gget ne Nop on of a total legisles ethno 200 lbs and sposses 100 lbs sloud be hem x norm egit in tope bullocks be gist need a tende melsa enota a labo In the control of the e it of so a sea s ration al potons of a tort should therefore be well under the veglit

tirten be avoi on one mal

Ton a ds (160 lbs) to egit of gamleh serred by the unjaries on the bullods of te Dece a dit eyel as the annuber of spine b flocks to the place of these that gets chor gallel All a tent polls all a ld he joint disc that they can be carnel on bullo Law thithe tents in every porto of tent lo blejtuccie C el enots it leforthe ecki g ound o the deep continn solof le Dece and re un be to trave n eather and t ado lifu le ler keep us

s chide ate an a lirep je there leases. Muc e excellent ad most sell for the general trans us oce of the large Gn H I Brewne I slould a nel do that the place blay or diantage of such a system

nīdi I do not be could be the fear bity o economy of also proposed I fel a fe Ma C n en (n kghdal en (n kghdal

the t ters of ti solo lepo soos of ets folm outlinot
k p up true potentier to be lan po when requel on terms
the two die profinite or alrant goos to Coerame t Tecritie nollect his benealected by them a state of We has conducted by the order of a large projection of 1 soft when bed normy to the Nation of India to be eats fed on the sport. The rast n stem of press ng a wgo f t stound weessa y to do so nde stood by the \ t was and

h nd bt edf n time n moral So be g s e l e an a ple supply of carrage the contry l usa le I see no dv n ge to be der wel from s el a sy tem wheh co d not e nt od ced the ten mae BrealwG es Fr Quet sie Geam Bu

In Vala a p sd may the me large treets of menit ated land called r. of on 1 de landes and pone see a bottom h 1 e it to the mean the and per so to bottom be a strong to a late of a to be of the men at large and them to make a men the man the and the men at large and the men at large at large the men at large at large the men at large at large the men at large at large the men a B trC tr FCk p

Brid G ro T I res

Brad G r. II ra I knowl hosto h la pole to ry cent ble to te zen nie se no d I coole ce ce e a recell sity cent room for ce de and monke ger B is a life to de crages of the onty and the stay slo Go en n I celd restret to the trape of the poly in poly in one cobered on I to allocate rately is a locate to the stay in the stay of the coole rately is the not be cent and the stay of the life present in rate of to the normal stay in the stay of the sta

vitere road ex st

If the system is found to answer, it might be extended, particularly in the camel and mule dis tricts

Colonel J A Tytler, CB, VC, Commanding 4th Goorkhas

I should say that it would be perfectly possible to organize such a system. The carriage so employed to be under the control and charge of the civil authorities, who would be responsible that it should be kept in an efficient state and produced when required

Colonel J Vinedenald Secretary to Go exament Bombay Military Department.

Yes, if Government me prepared to offer the transport for hire at lower rates than the ordinary carriage of the district could be procured But the scheme would be worked, if it all, at a loss to the State

Colosel A. H. Murray, Deputy Adjutrat General Reyal Artillery in India

The only system I can recommend would be registry, with a retaining fee where permanent transport was not kept up

Le stempt Colonel \ G T Hegg reputy Quarter-Master General Deputy Bombay

Such reserve transport now exists, and would be drawn upon by the military when required I do not think it would be advantageous to attempt any organization of such transport in time of peace

I entenant Colonel H A Lattle Officiating Deputy Assessment Ounctor Master General.

Not practically or with any advantage to the State or to the military service, and with a heavy standing charge upon the revenues of the country, although no doubt with advantage to the agricultural classes and owners of carriage

Major A A A K nlock Deputy Assistant Querter-Master Gen

I have forestalled this question (which I had not previously read) in my replies to question 15, where I have recommended that all trusport unimals which are considered fit for service should be branded and registered, the owners being prid a small annual fee as long as the animals remain serviceable, and being required to produce them when required for Government service

The animals thus selected, or a portion of them, should occusionally be called out for peace and order, in addition to a very sample drill. Blace who learn their work, then the turner should be placed under some zot of discipline, and taught to Leep selected and order, in addition to a very sample drill. Blee who learn their work, intelligently might reserve certificates entitling them to a small annual fee, psyment of which would be dependent upon their pre-enting themselves with their animals when required. These who should exceptional activity and appending to transport duties might receive a somewhat higher foe, and be eligible for subordante appending in the department when the reserves were called out Probably a good many men who had served in the army would be forthcoming, and would require

but little teaching

Loutenant Colonel R Blundell, ard Hussars

I do not think such a system is possible in India

Leestenant Colonel R S Cleland, 9th Lauters

Yes, by (as before said) numbering each village cattle and earts and enlisting so many of the villagers on a reserve pay as would be needed to look after them

L cutemant Colonel Lord R D Kerr Commundum 10th Hussays

Any really effective reserve to be at all times ready for use when required could under no errormstances be withdrawn from field service without leaving a sensus gap in the transport or cultivation of the district

In England yeomanny houses are exempt from treation, in Indra, I believe cattle are not taxed In Ingrind yearnary horses are exempt from twitten, in Indra, I believe eatile are not taxed, consequently emerature is executy to easies their operations when captured I about suggest that every owner of more than two head of suitable cattle be traced so much per month per loss if less than two characteristics and the cattle between the case of the traced over the Government on him or practises at a moment's notice. Should be agree to thus, exemption from the pryment of poll its, rud in addition he should receive some small parents per month as a telemer. In the immediate maghbourhood of a station, exitle might be let out for gurden-work, converge, for, in limited numbers, and they might be employed for consequence of grass from rakes in the neighbourhood, the numbers in any one station would not be very great, though, perhaps, considerable in the accordance.

m the aggregate

Locatecant Colonel J C Le Querre 12th Reyal Lancers

Such might be under the executive at civil word, but the required crits would not be adapted to the habits of the Natives, and besides, if such could be, the wear and tear and matternaon to cleraliness would detract from then value and then condition when called into request

Mayor J W Chaples Sth

In large military stations or cities, such as Calcutta, Bomby, &c., it might work well, but I should say that in smaller stations and cantenments not

Capta n J A S Machenne 9th

Yes, I think so, and if, as I suggested (in answer 15), a register of all carts and cattle in each district was kept up, the transport officer in each district, with the assistance of the civil officials, should inspect the register from time to time, and satisfy himself of its accuracy

Colonel J A RuddeB, 125th Regunent

Yes, I am of opinion that a reserve transport might be organized by paying owners of couringes, camels, mules and pomes who could be depended on by the civil authorities a certain monthly or half yearly sum, to place their carriages, camels mules and pomes at the disposal sum, to place their carriages, camels mules and pomes at the disposal of the transport officer whenever required in time of war or other emergency

Lee tenant-Colonel T Revoluted Communication 1 with First arts

No doubt a system of reserve critic, &c to be used for these nur poses in time of peace inight with advintage he established, or a system of small reserved pryments to Natrices in consideration for which their cattle and carts to be at once available might be tried

Le tenni-Cokuel M Ractire gor 1 18th Foot

No the N tive villagers and farmers would not take eare of the cattle without constant supervision, the animals would be badly fed and overnorled

Majer I'S Terry 1st Battalion, 2.th Long s O vo Borderers

Yes by a system of registration, by which owners of pack and drught unimals should be rewarded for registering their animals for Government service, divided into 1st, 2nd and 3rd class reserves

The reserves would be available at given parieds of notice and in different degrees of emergency. The evel government of provinces should be charged with this organization

Ad litio ial re iarle

I beg to suggest that a more thorough organization of regimental and departmental transport

requirements should be instituted In every staff office should be tabulated scales for veg ments, and mevery deputimental office the same for its own department, the whole being regulated approved and tabulated in the divisional and district offices—the scales being drawn up to suit their own locality only and for different seasons of the year

They should be drawn up for four orders of march-

1.4—Rud order—none or cooly carriage 2 ni -Br. oune order-mule carrioge in tents

3nd -Marching order-tents carried by mules or in mule carts

4th -Tull service order—my description of carringe.
The last order would make be provisions for three or four days

The 2nd, 3rd and 4th for fourteen days The 3rd order would include tentage

The differences between the three olders of march would be represented by distinct baggage and timismort

Thus a regiment matching in full service order would parade its transport in four sections to presenting the four different orders of march. It might be ordered four and in and order, the follow ing day it might send back for its bivours order baggings the day after for its marching order big-

legument's guards would not be left behind to tal a churge of baggage batmen only would be left in charge, and it would be treated the same as other army stores, the toops liming the communica-

tion being responsible for its safe custody Mayor Hugh P Poarson 12th

Quite possible This is in fact, a portion of my scheme, and has I cen dwelt on at some length in my answers to the earlier questions in this paper. The reserve transport would be that for the due maintenance proper the reserve truspole would be used to the one maintenance of which its owners would be over a setting fee, its amount, do say ton and local ty long registered in the book of the superint tendent and his assistants, and in those of the civil ruthorities of the district

Mayor J D Dyson Laur e 34th Regiment

The State could possess the power of utalizing weal-able currings in the country when requisite

Major W H, J Clarke 72ad H'ghlanders

I have not a doubt that one could be organized, but I have no suggestions to offer

Custam B H Fawcett 33rd

I think it would be possible and most useful in emergency but the worth of such a system of reserve transport would memly depend on the cordial to operation of the local civil authorities. I think a light text on holders of eattle, whose morneds would then be exempted from

which tax those who greed to piece their critis et desposil to case of greed benegating and from those tax those who greed to piece their critis et disposal would be reloved, would led of thin to a considerable necession of recome, or to a permanent tumpent or ere. The pieces for pre-chase or have of the entitle ought not then to be subject to fluctuations in propostor to our course or that or our exacts segment now need not as surject to account in proposition to our necessations, or a remission of a portion of load receives from those who would place then earlied at our disposal neight give us a smaller trusport reserve. Of course, are assess would be kept by the police of the animals in thy for source, and the civil rethorities would I now best how to draw them, when reof the summer's way for extrictly that the card reasonings would now new new no that them, when the card of the import through his deep representation that there is no manufactured but there is no manners all outston in India for the requisition of all transport earths in easy of need. The rememberance of this is dying out but it is no constantly used in our former wars in this cauntry, and in the marching of reliefs up to a few versa ago. By obtaining the consent of the cattle holders and registering the cattle, a larger proportion ought to be collected in a shorter time thru was formerly the case, and the good will of the people retained as far as possible

C Josef C. R. O Evens Commond b Boyal Artillery Mount II vs to

Quite possible but in my opinion welessly expensive. Government can at any time take up and transport as may be used ordinarily in early works when required

While depreciting as stated the establishment of a separate transport deputment, to be kept up throughout the country in time of peace, there can be no doubt that all troops stationed on an exposed frontier should similarly to the Punjab frontier force, have a complete transport establishment at all times

(1160)

Loratement Colonel I Ketchen, Royal Artillery Trusport used in earl work in time of peace and taken away (pes sibly when most needed) as soon as war broke out would cause great confusion

If arrangements could be mide for its being used by inhabituits in time of perce, at elserp rites on the condition of its being liable to be called up by Gor enument at pleasure, of course this would be exceedingly advantageous—as to how to arrange this I can give no suggestions

Major Bert e Hobert na M le tary Secretary to H s Grace the Go ernor of Madras I do not think any transport owned by Government could safely be permitted to be used in evel work except within the general supervision of Duropean officials as indicated in the inswer to question 11

on Longian conceins as immersion in one issues to decention. If these re-transport means it estimal portions of the registered corrage of the country, probably some retoming fee (id need outgoing) will be increasisted in Imay be ferred that such as system would be a some of constant touble from the pritial restriction of fine employment leaking to infendenced or municipated versuos. Prosecutions would have note to be deployed—and perhaps special legisiston would be noted.

No 297, dated Octacamund, 30th August 1879

From-Major B Hobart, RA, Mily Sec; to His Greet the Governor of Madras, To-the Secretary, Army Organization Commission, Simila

In reply to your letter No 217 of the 13th instant, forwarding from the army organization commission a series of questions, I have the boom to return herewith such implies as I have been

able to drive up in the abort time that could be allowed to drive up in the abort time that I have been unable in so few d hys to put together any detailed schemes as asked for in paper II questions? and \$9, 9 and 10 and 17 or append such further statements as might have had

some value in the present enquity

The opinions I have hazaided are submitted in ease they may chime in with similar expressions

from other officers of the arm;

I have assumed that the intention of the questions is to clicit ideas and proposits for economy where it will not decrease afficiency

I beg, therefore respectfully to record my opinion that the organization, equipment and sanitary condition of the British portion of the ramy of India has reached a point of completeness which, for

all practed purposes, a cust sufficient and real uniqued to the country

mitry propresents The increased even and vidention hestorated on the British soldier of integers
and on his comfort in such motions as undirectly conduce to montain his health, are not wasts of
money, and cannot be curtained. The manking and det in structure used in the most brial system
will show that these measures have been a direct swing to the State, but where the merassing
military expenditure has tended to make it appear that the British soldies agetting to expensive
us, I believe, in the outby on "accommoditation," not only for large permissent branches (which at
now demands for subs dainy works, which was presented the merassing
now demands for subs dainy works, which has petting british and
one changes have shear unswanted youthouts that don't exist to the sample of abbuildings), but in
now demands for subs dainy works, which may be presented to the contribution of the provided for the change works and the contribution of the con

Annual repairs to the extent lately demanded have, I feel certain, been in excess of what was

absolutely necessary

Further, the supply of stores from Engined his become a very serious item of expenditure, and requires to be reduced by imparture ordinate that the resources of this large empire are to be depended on as the competition.

In a word, I would not cartail any legitumate convenience or comfort to the soldier in this half

of earlo, but I would not seek to sate him what is samply troublesome from entuling some extended in the matter of burnets rengement or followers, nor would I supply Lurope goods what country produce is to all intents and purposes equally good.

As regards the power of employing the soldier without druger to his health, there is the feet that the field strillery is generally the most healthy corps in the country (the cavelry coming retly, to prove that 'y undecous amount of work is a saminy necessity, and therefore economical to the Style

I should say quite possible It is very much the present system.

Major E F Hume Commanding C C Royal Horse Art Ilery

Mayor W W Murdoeli Com I do no

I do not see why it should not be possible Yes , by prying owners of carriage a retaining fee

Major T M Hardings Commanding F 3rd Reval Artiflers

Major the Handle A Stewart
Command g I C Ponel Horse

Thus is what I have tried to propose in my inswer to No $\,7\,$ question in this paper

Major C F haune Royal Horse Artillery

I think it would be say either to encourage by small pryment, or compel every village to keep up a critian number of bollocks earls and males which should be registered and available to a carrage when required. These would of course be used in any) work when not required by the State.

Major P FitzG Gallwey, Royal Artiflery

Government might possibly subsidize large landed proprietors to a certain extent, on the condition of their keeping a specified amount of carriage in their districts. I can see no other plan Monte W H Noble, D L.

I do not think it would ensure to hire out Government exitle during perce, as the sound would run the risk of being unfed or injured

A system of retining ties might be adopted, by which the inhabitants of a distinct might be encouraged to keep up a number of transport

Colonel O Will moon 2nd Ben gal Caralty

I think that the civil officers would be better able to answer this question. I have no idea how the inhabitants would co operate in auch a system

Colonel H Gragi Communication 12th Bengal Cavalry Br gail or General C J Codhe, Con wand up Pu yels Too too

Undoubtedly this proposition should form part of the scheme of transport re organisation

It is necessary to escertain, first if the country can supply the necesmany amount of earnage for, say, as army of 30,000 men if not, earnage must be kept up by Government or in reserve

Civil officers will be better able to riflord information regarding this latter proposal. With regard to the supply of camels, I believe that it might be enormously mereaved at a very small cost comparatively. The breeding of camels is attended with no expense

Camel firms might be established at a very small cost and the camels hared out when not wanted to Natives to a grad extent I it must be remembered that causes ire not settled so make the carrier for a very cold chante, and require great e ar and require great as yet cold chante, and require great e ar and require great g should not work for an army as well as they do for the 30 000 Powindas that come from Turkisten to India and back every year

Colonel James Blass V © Com manding Let Beneficy Laucees

With penses it is difficult to see to what use in a civil capacity they could be put to If the regument had camel carrage, they could be let out on here

Lostenant Coles el G. LaTouche Communicat Pop a Horse I am not prepared to say that such a system is unpossible but I consider that any scheme embacing such an idea would bustle with difficulties and could at all events only be satisfactorily carried out after a good many practical experiments. Reserve transport for an ormy

represents such in enormous item that it is difficult to conceive how it could be kept up on an organreal system without the expenditure of produgious some of money and if not organized, it would nn no way he more serviceable than the ordinary resources of the country. I think that to a centum himited extent rescure transport is a question on while of solution but only to a humited extent, and that, before deading with it, it would be as well to nork out the system of permanent transport as represented by the establishment of a small transport corps, and then having Lindy grappled with the details and difficulties involved in the minor problem, to see what can be done towards extending the system on an enlarged basis

Lestera i Colerel T H P Mal-colores, Communitary for Seed

Yes I thank so The extension of my proposal for regimental trans port would vutually be thus only in forming a reserve transport it would be well to have some distinguishing marks on the animals and other transport. The owners of the transport might be allowed a small

monthly returning, first, and for take they and the board to report the desirable of any hampoor to the tree own youngers, whating how to to take game on a going and the republic date of the view or a purposer, whating how to to the argument and the attention would strong be commanded with the attentioned of their turnsport. If this is result to almost always the commanded with the attentioned of their turnsport. If this is result to almost always the manner that of the place or high goes to confident, which the turnsport would strong be verying until the centers received both or or advise straing that the contrast of the contrast tower transport women and a certificing with the contents received the res or contest stating that there were tegrated as fransport and were net to be bassed on used for any purpose except under great necessity, I than the nume any such a recognition of their being as it neer in Government employ would give the a from being passed at different places for the convenience of travelless or small muites or other reason would alone male the hen on them by Government in cree of emergency

quite popular I am virand I have given but a very lumited exploration of any ideas but to work them out in deta I would only give name, a crowdle to the commission, and many better suggestions will no doubt he received

Mayor & P. Palmer Wils Bengul Caralry

A reserve transport would be organized by having all wallable baggage animals and attendants registered and mustered by circle superintendents of transport at least once unmally at several convenient tentres in each eirele

A small rot using fee toight have to be given for each efficient baggage unimal mustered and the numels branded with V I. Further independents should be effected to breeders in the way of prizes

at fairs, and the law taxing begging animals repealed.

The and departments would have to render assistance and it might be necessary to infact a penalts or fine on registered owners who failed to attend musters

penning or use on registeric coveres who sense to vector amount.

Acto—I would grantly strengthen us on our rothen insider if use months' supplies for a director of all arms were lest perfectionally stored at Lunch Kotal, Shringon and Pishn

In case of an advance from either of the posits at some fixing day being necessary, delay that

might be disastrous would thus he avoided I believe that three years' supply of grun is always stored in the grenaries at Horima in Malta

Colonel J Dotan Co amand og 27th Pangab Lativo Infantry Curte possible I should say, though I am not prepared to say how such a scheme should be drawn out Colonel H 4 Obbard Command ant dist hairs Infantry Quite so, but it would not be worth the cost

For service in the plains a system of registry would, I think, suffice nuthout going to the expense of keeping up a reserve establishment. Such in establishment could doubtless be organized, and for external warfare, se, warfare elsewhere, the plants and in the vicinity of frontier stations, it is a necessity.

Colonel F Dandridge Com

monding 40th heaters Industry

Appendix IV]

G W Frase 39th C G

The system suggested in ans e to quest on 15 would be of this not e bot namals and well eles e ug pr v te prope ty lord n riv n se by the ones who wold early be bod to m ke tiem o er to n se sy tate do ne's who we have to rese coe ear equ cl He trues o t dep me to he when to rese coe ear equ cl If lept up as the property of Go erament the unswes to le tons 11 d 16 o dapply in regid to trasport be ng male av lable in tme of peace for the use of evlanlm htmy det bment and a so for bulloc tanp cses a dreg ment it asport being similarly hard out on ce ta n condit ons the en state l

L utenant-Colon l H We l y C mmand n th As a In

Possible lutummenessary falt ansport were e, tend as suggested ansivers band lo for u e such a system to whole transport of the count y wo ld b av n ab e at the e d mary rates of h e o u e use whe reg ment tunsport o lb kept p at the e pease of pr tend vid als sauggested n ns erll

Lea nant-Co a Wa! Commedant 1 th

I do not know of any ny m h cl n rese ve transport system could boogn zed

n ut n nt-Lolon B G Ro er 20th Pun ab Na 5 Infan y

Not fo departme t for easons alo e g ve (answe 11) nor for ag rs fo the ese ve cattle o d Irobably lave o be cald in hen nost ren ed for or ulture

LuntClone No an Cumuda Punjab \at e Infa try 24th

Only by paying a sa no fee a some way or old s and I do not th k that the expense old be bulmeed by te ad mages

I to tCl lHS G Tak 44sh If ra Spa det Tapo fun 41thatao Infancy

No I do not til u t pos be A yres tri s ont til ere m whit be feat o I ed for anye I o or to be u o I by tile in hib tusts o d be set coom to some him. I tritle m so suld be latt u fed and unce el for o they not to be a late of ey to itemme oc espondance oud assecut to be party as chibes I would la e to be the or in I t would be doe camment to great express I e g eat bject s to le p the whit ts a good temper so that tey ould ala ys be Il g to he o tors lite eattle to Govern ment the eve tmg tbe equit

A S B P Bombad 40 h Ma c In an y

Yes ee ta nly (pleuse see may epl es Nos 3 7 11 12 nd la) can age should be owned by the people not by Gove nme t few e cept one noted the cone dug sentence of aus er No 3 It could I ways be held whin ranted In cases of energency tooud be eq stoned

The term reg mental transport system sam snomer It should be called a gene altan pet system

Majo A C W C la suk Comm ndm, 32nd P neers

Ha dly to a greater extent thru done t present ou ese we be ng the eattle of the ecunt y Industries that insport of a links and one eet this me ely a matter of time. To merly this was not felt as reguments coming from a parts of Inla brouget the on carage und ald stacts boethet, alke now howeve n tle days of a ass toops as slunted of at the term and Go nment expect to find a full s ply of ca ago at no then ar yal

T k ng the carringe se a e ha e Plep a s These we must e t h and keep to the extent eq ed They are however del cate

and e pens e beists and the mber to be light should be rylin ted.

Colo — Hese ne dee cong in proportion as the gazing on is a being a traited. There Of ct—1188 te use c sug in poporo una se g ang vo is conegic symma amorell land plan camis in last sta and insush for more populatest of lud. Go ement so de runge to tien due en ed stoos eng p has lo co tred dor. Due mene no mantabo his solo en to zeno nusto breed them ly soun gether trete of g az glands.

O sold blut —Beth ney lenhiful a set had a let he ag stood at once I e suggests that a stand of pattern or the mode up ted by at old of the composition of the control of the cont

signed the summer processor are more affected in the first side of the control of the first side of the control of the first side of the control of the first side of the control of the c

toper e tei in una se and persone see assenting e tou una annount a tourne and una second unique and fore unentialed dip el el gen me undut as them un etc est il their sixtors. Some 4000 to 500 colbid ma fan mi oud forma a lien de stort tith furnai gralose trappo 150 colo 200 colbid me Po isel, can be eta se qui loce else Asa matho er boen stell n poco ta canditan med. Me ma lycught men sent to Afgha st.n ne q o n be to cryal den

This illicins agest. To set ilen on pittee ge would be merey money thown in it astee of the sinequivile that being following. And o respected of the dg Go erament exist out to envil and private of a snoteneous ging treats may does not

of E u g to efficience come over the many present of the unit of the common of the com

Appendix IV. (1168)

goes on. We need not fear my wast of cut age an the future. People have only to remember that cruzch are not all to be got at one need that they do not ordinarily travel by trans, and that, when got they require food and penalurel halts, and herming there permits an analy, enrange will always be inchmening cure for a large enamporar, and do good work, under all possible difficulties

Colonel H. Beasinger. Com man I 102 48h S klas

Loutement Colonel P T Bumbridge 4th Silbs

I think it would, but that it would be better to buy the citile and bue out to triders, &c, to go within fixed limits rather than to keep up a reserve of hand animals on a retaining fee.

I do not think so

Calcort S. Edwarder. Command. 1 g & d Equality betwee Infa try Calonel H. H. James Com und

Colonel W Baseerman 4th Bombay It fire It might be possible, but not without heavy expense

Without more information I am unable to spent portively, but it appears to me there ought to be no difficulty in curying out a system of this hand with the assistance of earl officers of districts

ing 10th Bombay Artice I foutry Colonci Y Futerither Command g 22nd Bembay Native In fantry

If the animals were to be the property of the inhubituats, and that they recoved a small sum anountly for enrolling them, buiding

futty supercovers a status sum amounty to cereating mean, patterning themselves to protons on many within a relate that man what negatived, such a john might succeed, but it the orbits belonged to Government such as the part of the first farmers, for I bettere they would be outer worked and held starved, and over hard a base salide in for missary server. I do not one to stefestary way in which this might be named. By then a to have thoughly treated duplot a start of the salide of the same of t s userousty way in wriett uses migute to analoged. My seen it to now, to company whether did yellow of the proposed sources, molecular evolution of magnitude states and an election factorism to the transport sources, molecular voterancy involvedge to some section to young offers in peace time, and which could be expressed to any extent necessary in these of were "I it extrains sensitive of young officiars were to turned nameally at depots, other after years there would be not influently in finding influence and definest supervision for the corporates of the source our businesses of Novan detaulties man, and at one you for any supposition, musketly instructions, the should be granted to not equilibrium, and the print for any supposition, musketly instructions, the should be granted to not equilibrium of the medium of the control of the composition of the co periodically

Licut-Colonel O V Tanner Communiting 29th Bombay N I

Not impossible, I should think

Celouel I I Willes Commus

I thind not The articles of the country are meacepus have not the remotest size of patrotesm, consider it always a greeness to rock for the State though well paid. Such a system of reserve transport would never be reliable. The owners would take a returning fee, however large or small without hesitation for years, but if suddenly called on to serve abroad, would evade doing so by every imagnishle trick, as explained in answer 7

I strongly advise that no rahance be placed on the natives of the country for my voluntiny assistance in the way of trusport out of India. All to be relied on must be solely Government

Sessiment for the way of a magnetic own at most An to be reset on most be easily described in the property, organized, if poss ble, before un among actually takes the field.

The measurements that has caused to the troops and the utbrit units owners of catile during the late war was caused almost entirely by troops advancing as harriedly from bise, of course for urgent reasons. Had the time fixed by me as necessary to e map a force in my confidential memorandom to Government of 21st July 1877 been given, the topps would have advanced properly equipped and camels and establishments organized and camp followers clothed, instead of the disorganized way they dul

Colonel R A Moore he ng Commissary General 's drag

I do not think any reserve transport of the kind could be depended on This could only be done by a registration in each district of the

Lentens t Colonel M Willo gl ly Act ng Commussary Control Bombay

carringe little to be called out to serve on emr gency and the system would have to be devised and carried out by the civil or political officers in charge of districts It might be possible to arrange with headmen of villages that a certain number of cuts or unimals should be available for service, and to pay a small retaining fee, the animals or carts being musticed by

Colonel T H S bloy Deputy Commissary General Bougal, Colonel M J B rade Offic t-

ervil authorities once a year Impossible, I should think nor do I see the necessity of proper steps are taken to I non exactly where and in what tame the carts and baggage animals of a district are to be found when wanted

ing Depity Commissing General Cal I Letz Deputs Come General Justin Circle Beneral.

has, see reply to question No 1 of this paper

Colonel G & Mache a Deputy Com us sury General Lin in Com nour to charge of the Khyber and Kuran Lorees

Possible but unnecessary, unless at as means to organize binding establishments to supply a reserve I doubt if the people of the country neuld be found to give employment to Government currage but on particular lines of country

Processing control of the control of the grant control of the center of the control of the center of

and worked on my responsibility, on a system which made them equal to 16,000 or 18,000 It was and worked on my responsionly, on a system a men more usem eight to 16,000 or 18,000 R tra-by their memo only this we manufamed the may in the Khyber when, had the commonstant and done it, the army would have had to leave the upper pass in March—Let the commissions depar-ment, I am told, failed!

Colonel R. Q. Mainwaring Deputy Assultant Commissary-General Kamptee

Lasutenant-Colonel J V Hunt. Deputy Assistant Commissiry General Bengal

The animals would be useless when required, as the generality of Natives do not know how to feed and keep them

I do not think that such a system would answer. It would be better, in my opinion, to remove, in the case of reserve carriage, the prohibition which is enforced in regard to moveable column carriage agunst the use thereof for the private benefit of the owners, and only to require such curringe to stand muster once in, say, three months instead

require seas curring assume answer once in eye more motion insects of monthly. The carringe could be efficiently brinded, so as to prevent substitution of inferon numbe, and it might be stipulated that it should only be used within certain hints of country, and that is emergency it should be inble to be called in—say quarter of the amount within three weeks, half within five weels, and the whole within 50 days

Crimels mules, bullocks and carts might, on the above system, be retuined at small cost, for instance, the rate of hire for camels at work being Rs 8, those at gaine new only Rs 5 and, if the restrictions to which I have alluded were removed, they would probably be obtainable for Rs 2 or less, on the understanding that when worked, they should receive the full hire, which should further be allowed from the date of their standing muster at the nearest station to the point of assembly

Mujer W. Leel hardt, Deputy Assistant Commissary General,

I am afraid that such a system would involve a great expenditure and would require constant supervision, necessitating the employment of many officers, for, unless strict surveillance was exercised over the cattle thus lent out, the probabilities are that they would not receive purper eme and attention paid to them when they would fall off in condition, &c If the transport officers suggested to be lept up permanently made themselves theroughly acquinited with the resources of their districts, there should be no difficulty to obtain the requisite number of transport animals at any time, either by hire or purch ise

Captain T F Hobday, Deputy Assistant Commissary General,

Civil officers who know the natives of different districts would best be able to answer this question. Curringe so kept up would have to be collected and inspected at least twice a year, and very heavy penalties enforced for its non-production in time of war. It is possible that such a system might be organized in time in such places where camel and pony carrage is still much in vogue, but such a system would require a senurate staff of officers and Nutave officers to organize and keep it going, and would take some time to develope, it could only be organized under advice and suggestion from district civil officers, at any rate to commence with

J H B Hallen Leq., General Superintendent Horse-Breeding Operations

Yes, the nucleus of a transport train as above cursorily faid down could be extended in the neighbourhood of large cities and towns, where the animals might be used for civil work by municipal authorities, &c , pending their being required for army purposes

Major-Cenoral J Ross, Com anding Presidency D strict.

The questions embraced in the paper with the heading Transport we of so extensive a character that time has not allowed of my collecting the information which would enable me to miswer them in detail

The extension of railways has caused such a change in the means of concentrating troops that it seems to me undesimble to keep elephants

and camels for moverble column carra go, except at a limited number of important stations

For the presidency district camels are useless For the south eastern frontier a cooly corps should be organized a like organization would be suitable for Burma or the Walay states, and should be such that at very short notice the corps would be ready to take the field

I do not see how transport can be employed an times of peace, except by the commissariat department, which could be divided into two branches—"transport" and "supply"

A system of regimental transport would be advantageous on service and would work well under regimental officers and non-commissioned officers, who should previously have gone through a course of training and instruction with the transport service

Colonel C. J S Gough, 5th Beng d Caralry

I regret I am quite unable to take up the question of transport in the minner suggested by the questions in the piper on this subject

I consider that the present system of hiring carriage when required cetl or for the march or for service in the field is the best prictical plus,

and then, with a price of the section of the section in the section is the least periodic pirely.

I do not thus, that it will not section of the section of the section of the section interest, season for meant and external wanford time of proce, as there would be section of the section of process of the section of the eers ice

I consider that the commisses at department should, as heretofore, contains to entertun the animals required for trusport, whether earnels earts or mules, and that they should be furnished on naments requirements to trapers, a memor causes come to manney, one error set younger, and another the accordance with a neighborhow called of theorems for brigging court equipage, for and that the traperst should be devoled when in the field into requirement, departments general, which uppears to one a count of years, that there should be special officers appeared to design of trapers of diversions, long-size and departments and time of diversions, long-size and departments and time of diversions, long-size and departments and time of diversions. also for the proper driving of them along the line of march to the officers commanding drivings and

bingries and heads of departments
When a long halt takes place, such as occurred at Jellalabad, the transport animals should be made over to commissionat department to be utilized in bringing up supplies, but only along that part

of the line nevest to the brigade, &c , to which it may belong

or the min netwers to the brigant, or, to winte triang belong

As regards moveable columns during the whole course of my service over \$1 years I crands

recollect a single metance of moveable column ever being exercised or such, that is being moved

suddenly or even with due notice out into cump but I consider their corringe being supplied, any regiments should be able to move out within twenty four hours of notice, though perhaps some individual meanvenience might be eccusioned

There is no difficulty in making use of the genss-cutters' points of cavalry regiments for the conveyance of commissions of other supplies particularly of grun for the houses and all that has to be done is to make over the quantity to the charge of the others commanding the regiments

Colonel W. Ouborn Officenting Comma dant@ff Regument, Madras Nat re Infantry

My experience with regard to transport does not warrant my expressmg an opinion, beyond that I consider that the transport service should be a separate and speed one with men and off care regularly trained for the work. At present on service officers for transport service are generally taken from regiments, we new and strange to the work, and difficulty and confusion are often the result

I have had no expenses of movemble columns, and therefore can offer no opinion regarding them

K. ORDINANCE

Please state what are the recommendations of the Ordnance Commission of 1874 75, and Ordnance Commuttee of 1877-78, which have not yet been carried out

Major Gentral Aup er Campbell Officialing Inspector Go coal of Ordernos and Magnetines Bengal

Very few of the recommendations of the Spiral Ordnance Commission of 1874 75 have been carried out. Time would fail were I to attempt to commercie all that have not been carried out, but I may enumerate

the following ~ The arsen'l at Port St George has not been abolished, nor has a

new one been built at St Thomas Mount

No sege trues are maintained at Mooltan or Kurrachee and therefore the recommendation of the Commission, that at the two abovenamed places 1st class depots should be created, has not been carned out

The assend at Perovepore is still maintained contary to the recommendations of the Commission. and no new one established as recommended in prinagraph 143 of the report of the Commission

No arsenal has been built at Khundwa

A 2nd class usenal has not been established at Bellan

The depôt at Der's Ismail Khun has not been abalished

The equality of converting Ages usion as seenal has been rendered difficult by the truncies to other departments of a vontion of the buildings which formerly comprised the unsered The ordinance establishment of Negmoch has not been abolished

An arrenal is still maintained at Mhow

No new depot has been established at Bungalore within the proposed military post at that station, The gun carrage factories are still maintained in India

The Madras gun carriage factory has not been extended, nor have any steps been taken to place it in a state of efficient defence

None of the recommendations of the Ordinance Committee have as yet been curied out. They have been accepted by Government in their entirety, and an order will shortly appear notifying the approval recorded by Government to the various reductions in the amount of ordinance reserves which the Committee have recommended

Colonel S Cham or *B a. Office at ag Dop by Inspector General of Ordnance and Magnenes Madens I Removal of Madras arsenal to St Thomas' Mount

II Reserve of Bellary depôt to rant of a 2nd class around III Reduction of Negrore magazine to a let class depôt (and fully but for the most part carrie out)

IV Reduction of Secus kerded transal to a End class depôt

V Aboltston of the Haderheld Contingent ordinance depôts th Austragaland, Ellicipone, and

Replace user as we over only by Colonel Channer who spect I Colonel Cadell's mean. The latter officer afterwards reposited certain most fixed one might be under. These have been carbord in studen.

VI Reduction of Bangulore muguzme to a lat class depôt (not fully but for the most most ermed out)

Abolition of Cummore depôt (nearly completed)

VIII Extension of the Madras gun carring, factors

All Eventson at our awars qual arriege reconj.

It Ples up the Makus gan enringe factory in state of effected defence

X. Esting of colour gan enringes mede at Vidins and those manufactured at Publiquit

M. Extension of Wakus graponder factory by adultion of another group of mearporting

(The read any har bece see from Pythal but so loost expense I are been vacarred)

AII Provision of duplicate buildings and plant complete for the more dangerous processes in the gunpowder factors

XIII Efficient defence of the gunpow der factor, XIV The supply of harness, saddlery, and reconfirments to Madrus from Campore, the Infler

Art 168 supply of times, security, was reconstructed as a furnar atom conjunct, not either factory for small for sma

AVIII Proposed European and Native establishments of the Madris arenal (This is now under consideration of Government)

AIV Proposed system of recounts for assemble and factories
XV Duropean establishments of three presidencies to be thrown into one general list
XXI Proposals regarding pay and tank of lasear establishment (Thus is now under Proposals regarding pry and tank of luscar establishment (This is now under consider ation of Government)

XXII Master transmer at Rangeon to be replaced by an amourer sergeout unde letter No 1805 of 3 vt 3 day 1875, from Secretary to the Generation of Linkin Allitary Department XXIII. Abdition of Following at St Thomas' Mount (# B — This Ret is ease and steely now

recommen led to be placed there)

λXIV Proposal that posts of assistant overseer and master overseer in gun carriage factory

be held by foremen Permanent establishment (Native) of artificers and laborers in the Madras factories be

gradually reluced and replaced temporary horse coursed set to a great extent.

Yet I first timble tail whoreas employed in guapracter nuture shall receive mercase of wages to length of sextree

AAVII Comp equipage — (This subject is now under the consideration of Government)

Mapor Greerel W S. Hatel Inspecte Govern of Orderson of The undermembered recommendations of the Orderson of 1877-75, affecting the Bossbay presidency, have not yet been carried on the Commentation of the Orderson of 1877-75, affecting the Bossbay presidency, have not yet been carried on the Commentation of the Orderson of 1877-75, affecting the Bossbay presidency, have not yet been carried on the Orderson of the Orderson of Section 1879-1879. out -

a —Increase of recommodation in Bembay arsenal only partially earned out

I consider the removal of the reserval to Poons preferable

l—Via ntenunce of a list of res depôt at Kurrachce. The Government of Indra has superiored the maintenunce of a second assemblat this station.

 σ —Abol tron of Necmuch magnitude Augusts completion of unlarge to Acemuch d—Abol tron of Mihow resumd and the establishment of one at Librardum

Government of India has decided to return the assenal at Mlaow Nothing, however, has yet been done towards building a new usenal s proposed e-Location of 1st class depôt in cantonment at Abmedahad

Nothing has yet been done. The depôt is in its old and objectionable position in the city of

Ahmedabad f-Reduction of Poons resent and placing a 1st class depôt in for at Kirkee

The reduction of Poons arsenal is now in progress, but nothing has been done in the way of building either risenal or depot at And ce

q -Abolition of Belga im risenal The arsend has been reduced to a 2nd class depot, and will be entucly abolished when communi

cutions with Belgium have been improved

I — If not the gun currence factor, divided between Bombay and Poons be closed Nothing has set been done, and I consider it most inexpedient that the recommendation of the

Commission should be carried out r-Latension of gunpowder fretories by the addition of another group of memporating mile to

each factors The buildings of Kulce have been commenced, part of the machinery has been received and part is on its very our Lisoland, but work on the buildings has now been stopped. It is very desurble that the work should be again tal en in hand

y-Extens on of small arm ammunition frefory at Kill ee

Processor of the sum of an amount of the sum the Government of 1 idn I -Circles of supply

The kuller small aim ammunition and ganger der factories have not yet been allowed to supply Modian and Lerozepore, although the Indus Lalley Railway to open. They should be so

Whom research does not yet supply Sangor or Gooms or -Collection of minumition in a central magazine in each station

Not yet critical out

. -D vis on of stat one mie two clas es as regards camp equipage Partly carr ed out only as more stat one ha e tall sam by of tents than was recommended by the

Commis on The recom sended one of the Orbanes Committee of 18 ? Share not been p blished except as regards reser as of smal a mmun ton The recommendation on this s | jeet is consequently the only one that has I een car acd out

Would it not be more conduc ve to the efficiency of the a my of India and more economical in every way if there was one ordnance department instead of three for India?

In any ering this question in the affirmative times he haps be as M. Genera Dan Campb Off ion In sects Genera of Orthogonal A e 3k, g l well to po at o t some of the evils which esult f om the maintenance of three distinct o in or departments a Ind Too much stress cannot be lad on the necessity of unifo mity a

the patterns of all arile stores equirel for the troops throughout

Ind a Regiments and hat eries located in one presidency a coften call diupon to so we in another and t s c sent al ti at no defic enc es n ti eu equ pn ents si e 1 ex st

If n to m ty does not jewn on procests y g n p tend we to be maintained entailing considerable add found labor in d expense n that mays the isle of a wrong article being supplied to

an indent ng office

Agran] oga da to altorutsons and improvements in fixed og pinent. In be eve y effect is man le for publis e el el suge a pattern to the — of ore general of a lame of the the en est edencies comes ia e ocon ed in withe either at ones senet oned by the Go, rement f Inda or iy His Ixedilency the Commande in Chief in India I we not been comin in crited to the other pro-dene cs

we communious in one in anoma is to not good to come in a citation by the old on pre-denic as the common and in the common and

sto es wil of may be deferent

If the ordinace logic timent in I don sum has one responsible had these a dother or is would be obviated and I have no doubt that the efficiency of the army of Inlinould be considerably me e sed il c eby

Were the person act of the lep rement less to a tile one lead the services of narrant and non commissione lofficers that got the leprement a light oned be a slittle tile leverture. n tine of need ni thus one of the great and en a neon en ences which resulted during the lite war old he pre eatel and the o ol c no nece ty to dir ve one o two ar earls of almost tie tet v per nemil. V pean child shreat and leve one os nde onshed tes nitiese places to be pe form d by oung and lexpreneed hands at the crytine hen experienced sho dust sare

50 b) be turn any owns and may introduce means as the expense means again minute or common and Wilele do am beamshop of the three o do note d pa force to wolk pose except only in mandalpsis in great mean on the s size muche wis if the minute side dear intends to be olded from it is the minute of the minute of the minute part of common and the minute of the minute

but careful p e us on m y pre ent such res its

The sign is on exercised by an officer silouted to co trol unalcameted odn nee department of the dem nis on P and a discrete direction to lock spiles I las no do bt no ld if effice thy exe e sed resut n considerable sa n to Go crament a d n this duection ith an

if effect by one coad round in commission in a in 4 for comments and in time anaequeum with a management will perfect and per good my gifts become their consistent of the comments of the comments of the consistent of the complete and the consistent of the consiste expenses of offerenced the mit; seen making must at Atum ate ficient of a tom allowed to the led of an amagemented and see do name to more officer at would be well that he also all be I rested to exerce a much discretion nod 1 gen uges o relefs

Co b C nm n Off b ng Depat In w Gn of Ordonn no J m new M bro General C del s vic son il ss l ect were exp essel in the follo r no tens lea or ng tiep posston modeh Colonio Nr 1 ra n lus dosson tie supply of dannestoe to Iu fon Lylud to ree e fo Ila te local manufetre of a 1 d to we e fo I la te local manuf et re of a / i e co st le en s to pl ce tle o dnance des im ut of tle tl ree

prendences unlive ele l Benril —
Bengristi en l'rmarid num il divou le ding pres le epil il I do not bel the thy making is aspector sence I receily as to details a perme over the other peade acs the wants of Ind a generally would be letter or more cheaply supplied than by the present system of free and constant inter communication and of critical datase on the part of all rate lily to use at each other as far as can be done with prude or and stricty. It is stimply mostable if Loboul Wry a proposal coald be carred out all out leasuing the authority or responsibility of the inspection property doubt the extra out. If our accounting the automotive of responsations we use the extra out of the motor p endemone a destroy ag Ue effectively of the destroy of the value of the Vision of the Calmel Wry I m: If seems to law doubt so of the part both I does not say I with the world popular were absentionity responsal by and efficiency to which I deallooks instroyed II I may judge from the amount of vork. I myself have to perform the majority of the property of the holy days to the writing of this to see o dered letter. If still moe extense e jurisdation that that of the unenses to rio es or I ich the nepecto general of Bengul i present holds ord new ways given to lim I have no doubt that the interests of the State vill suffer hovever able and he vever hard we king he my be He cannot be own serent and he cannot be own present and if he is made the ordnance store dictate of the cmp re his narvo dable mistakes will sooner or k ter produce druger and pecuniary loss

Two sile il sig cut o si appears that i use o le plot à locconce trade the 1 tou of the proce t the lands to the 1 ty of one leat is unite o of great y write oc All c to of chall there uniters really are confilled to deli the quit on allog bit the special to the cut is use of pray years. To close a reasonable a serve or left to for a time on 11 s jo t a about tit, occounty due effects of each of the confidence of a decision of a serve of the confidence of a decision of a decision of the confidence of a decision of a decision of the confidence of a decision of a decision of the confidence of the conf

, ted on the direction for the necessity of the direct and one of the control of especience iori e a si a resi o t.t. or or outer tim set poes typic e tans may despiseen. 1000 c. Taste o stated it is bit films ilas finition of possos que sustim ni of do tit ca e pe e ce er Lo lelge o it pai of e or o e of the spotes period ord a ce mi of a sport again. Il the totte, usuka o o en esof o lace boes ce lo difit to obsparts more by a tilm states

wold as g be a clystic of ex will as g be a clystic of ex When if fre exact op o led are in eas to hatterns or on any offer special or lance po te arore When I for exact on o let the recipilate place and a politima or an any other special or lance position as the little of little recipilate place and of the attention and will be a set of let d). It is not to be consistent of the letter of let d) it is a consistent of the letter of the letter of the letter of letter of letter of the letter of le

If t is letter till a uittle minde perso al of the dree gives de ever der a e officer it is in possible that it juy to the zero ce sto il at acc r. O e officer can of have gersonal Lovelye of the able of the nera sperso el a lile system of ponoto bja Le us one which we by seft of experso all o wedge 18 a t g

Vinjo G n a W S Hat h, In 1 G em of Ord nauce and I aguagase Bo mbay

I do bt much whetler myth ng would be go ned in point of eff ciency by an amalgamation of the tiree ordnance departments

An office of war rant officer has been trained in one part of the

country oull owing to difference of ling ages &c fini h meelf at a loss lensent to notice. The cost of trinsfers on a motion &c would us no v found in the case of artillery officers be ve y leavy

The separation of the ords on lats moreover does not prevent men b ng sent from o e predency to er e n the arsemals of another eg av non comma second officers of the Bombay or brance department vore se t to ser e a d five me no v serving at Quetta and Kol at under Beigal com

To enta Bombay store la curs are with the Kandul ar sego trum

Botl non comm ssioned off cers and la cars ha e been fa orably spoken of by off ce s v th wlom they have served

L go q anties of stores have also been a ppled to Bengal for the expedition and I do not that there of the common unportant samp in time in the supply it there had been only one instead of three lepirtments

Is long as il ere are il ree go eraments and il ree arm es. I il ml. il ree separate departments are required. In the e e t of an amalgamation of the armies an amalgamation of the ordin nee legant ne to would be less of jectionable than vider pre ent e reumstances

(1109) 3 Please state what would be the personnel of the administrative staff of the amalgameted deputment, with the duties in detail of each, bearing in mind that the object is to centralize in matters of great importance and involving great expenditure. and decentralize in all details.

Major General Nap or Campbell Offic at m. Inspector Ce coal of Ordennes and Majorimes Be god

If the orderance departments of the three presidences are smalgamated, I consider that the persound of the administrative stall of the amalgamated department should consist of-

1 Director general of artiflers in India). Pirst assistant to director general 1 Second assistant to director-general 1 Inspector general of orderance

l Assistant inspector general of ordinance In suggesting the title of inspector general of ordnance for the officer entrusted with the duty of supervising the ordnance department in each presidency. I do so not only because I im of opinion that the officer occupying such a position is by victue of the duties required of him, entitled to it but also because even in the apparently slight matter of a name there is a something which creates in men feelings of pride and self respect which instructe the efficient and realous performance of duty Ordnance officers up, by reason of then duties not being generally understood, not regarded with frvor by the reguneral view, however ignorant the latter may be, and this causes a lack of that soldierly pride which is as essential an attribute to an ordinance as to my other officer. As bereafter shown, however, I do not propose that the inspectors-general should draw the pay at present given to

officers of that grade

The monthly staff pry drawn at present by the administrative staff of the ordinance department in the three oresidences and the monthly striff pay I propose for the performance of the same dicties

m the amalgamated ordnance department are as follows -

	Present monthly shall p.y			Proposed monthly staff 123			Remarks			
1 Duestor general of stilliery in Judy. 1 Duest a sentant to director general effectively in India. 2 Second sensitiant to director general effectively in India. 3 Second sensitiant to director general effectively in India. 4 Deputy inspector general, Bengal. 5 Deputy inspector general, Bengal. 5 Inspector general, Marines. 6 A sensitiant to inspector general, Marines. 6 A sensitiant to inspector general, Marines. 7 Deputy inspector general, Marines. 8 Deputy inspector general, Marines. 9 Deputy inspector general, Marines. 1 Deputy inspector general, Marines.	2 560 800 500 2,200 600	8 8 8 8	0 0	Rs 2,500 500 500 1,850 300 1,650 500 1,650 300	0 0 0 0	0	With regimental pay and allowances Consolidated With regimental pay and allowances Consolidated. With regimental pay and			
Total .	9,400	Û	0	9 550	0	G				

Bearing in mind that the object in forming an amalgarisated ordinance department is to centralize nn matters of great importance and involving great expenditure, and decentrilize in all details, I suggest that the following dates be assigned to the several efficers above enumerated as appropriate to poek

Duties of the director-general of artillers in India

1 He will alvise the Secretary to the Government of India, Military Department, on all questions relating to ordinance, munitions of war, and stores supplied by the ordinance department questions contained to continuous measurements or use, since some conjugate on measurements engineering in 2. It will be includy to engineering or the progress of artillery centers and to subunit to the Secretary to the Government of India in the Mithery Department all such suggestions and recommendations as he may think calculated to improve the arms, artillery insternal, or other ordinance

stores of the service to mercuse their efficiency or to cheapen their manufacture in India

3 He would have to examine and report upon all questions relating to inventions or proposals connected with the units, utilitary material, or other ordinance stores of the service.

A All commerced various and non-communication of the ordinates department would be under its direct orders and control as tegends appendicuous, promotines, transfers, and here will be under its direct orders and control as tegends appendicuous, promotines, transfers, and here will be for the conduct of all business connected with the ordinates manufacturing departments in Taska, except such as belong to the account broads. From him would emanate all orders to the superintendents of factories, who would have to refer to him all questions which might require the decision of a higher authority than their form. The superintendents of factories would at the same time be held individually responsible for the efficiency of the crtablishments under their respective charges, and for the proper manufacture and strict conformity to the scaled putterns of all articles constituting the outturn of such establishments. For the intenor

economy and discipline maintraned in factories, then superintendents would, of course, be held responsible

6 He should frequently inspect the ordinance manufacturing establishments in India, and, as

he has opportunity, the several arsenals and depôts

7 The inspectors general of the several presidencies, superintendents of factories, and officers in charge of arcards and depots would have to furnish the director general with all such information. tion and returns as he may require, and report to him then opinion on any questions which he may refer to them

8 Under his directions and orders all ordnance patterns would be scaled on behalf of the Gov enment of India

9 With regard to the preparation of the annual indent on England for ordernee stores, the following course would be followed

Statements of the muchanery required to be obtained from Fingland would be submitted to the

director general not later than 15th June These statements would be prepared and forwarded duret to the director general by the superintendents of the several factories for their respective factories and by inspectors general of ordnance for the assembly and depôts under their supervision

A tabal stol striement of all machines; propered to be obtained from Lingland for the orderness department in India would be submitted by the director general to the Secretary to the Government of India for approval not later than loth July

Estimates of the mobable cost of ordnance stores for reservis and depôts, in uniteration of the

demands to be made in an annual indication Ingland, would be submitted by inspectors general of ordnance so as to reach the office of the duestor general not later than the 20th June Superintendents of factories would have to prepare estimates of the probable cost of stores which might be required for their respective factories in auticipation of the preparation of the annual in lent

on England, and forward them so as to reach the office of the duector general not later than the 20th July These estimates of the probable cost of ordinance stores to be obtained from England will be collated in the office of the director general, and submitted to the controller of military accounts

not later than 10th July Requisitions for ordnance stores required to be obtained from England for factories would be prepared by supermitendents of factories and forwarded direct to the director general, so as to reach not later than 15th July, with the view to such of them is might be approved by the directorgeneral being embedied in the annual indent on Lingland.

Officers in charge of arguards and depôts would prepare requiretions for stores required to be ob tuned from Lugland and submit them to inspectors general of ordnance, who, after carefully inspecting such requiritions, would be required to forward them to the director general with a cover inspection, bringing to before any probabilism in them which might edit for remail and detailing air stores which have not been included in these requisitions but which, in the opinion of the inspectorgeneral of orderance at maght be deemed necessary to obtain. These requisitions would have to be submitted to the director general not later than 15th July

smantage to the director general not their an array way.

It am these factory, useral, and depos requirements and ultied statement would have to be prepried in the cline of the director general showing the quantities of the several stores mailable
for transfer and those which no lid have to be demanded from l'agirud

On the orders presed by the director general, the indents on England would be prepared from this tabulated statement and forwarded to the controller of multivary accounts so us to reach that

officer not later than 10th September

Instructions would be assued by the director general for the transfer of stores, if necessar, Ishmente

Supplementary requisitions for stores on England might be submitted by inspectors general and superintendents of factories to the director general only it absolutely necessary but special or supplementary d mands would have to be very emefully examined and restricted in manber their sul mission being only justified under exceptional encountainees or unforescen emergency, and the reasons for their submission would have to be fully detailed

I stimutes of inticles required to be made in manufacturing establishments would be submitted by officers in charge of aisends and depots to inspectors general, who after carefully extraining such catuaties, and noting what articles should in their opinions be provided, would have to forward them

to the director general

The director general would furnish each inspector-general with a statement showing the quanti factories to the director-general, and by officers in change of arsenals and depois through inspec

ties of each uticle to be supplied from the several factories Estimates for stores to be purel seed locally would be submitted direct by superintendents of

tors general of ordannee so as to reach the office of the director general not later than 1st Soptem The e estimates would, after having been passed by the director general, be returned to the in spectors general and supernatendents of factories

The tenters received by superintendents of fectories for the punchase of local stores would be submitted for the orders of the director general. Those received by officers in charge of areands and depôts word be dealt with by inspectors general

The ludget estimate for the ordinance department in India would be prepared and submitted by the director general to the controller of military accounts not later than 1st November

The elimites for permanent and extra establishments, office rent, stationery, telegrams &c. would be sufficiently be directed general by superintendents of fectories and inspectors general of ordinance for their respective establishments not later than 1st September

Appendix .V (1171)

An annual statement of buildings required for factories would be furnished to the director general by super tendents and those r quired for area als and depots by inspectors gene at so as to reach the director general not I ter than let July

An annual statement of buildings to be erorted would be submitted to the Government of India by the director general not later than 1st Angust

An estimate for petty worl's to be ear ed out in the several factories arsenals, and depôts would also he submitted by the director general to Government

He would deal with all questions of arms equipments as regrols ordinance stores issuing from time to time under the orders of Government, equipment tables for the several biancies of the

arms
The director general would submit to the Secretary to the Government of Indra, Military Department an or o'll report on the state of his deportment, gring information regarding the working of the department during the preceding year the changes in equipment which may have been effected, the state and out of the mainfecturing establishments and all other matters which he might consider describle or expedient to brug to the notice of Government. He would a dunit rum ally for the information of Government a distraled statement of the quali-

fications and diaracters of the several officers serving in the ordinance department

menonic and a mention is up over-1 unioner serving in the obtained only union. The assessment of rector general out of a file discussion of the street assessment were used as good to describe general; in the discussion of the street assessment to ground a good to describe general; office in the streets of the label 1 and 1 age to the discussion general; office in the streets of the label 1 and 1 age to the discussion of the streets of the street work.

One of the samples should be a young officer selected in Digland age tilly with indicator to his securities quintification, which should be of a large order and state is might real be unionessed 2 may

references being made to the home authorities on subjects of any recent changes effected in artillery mittered. Such an office should be rehoved every fit eyears, to cuable another younge in an triking his place primed with all the latest princhest professional knowledge to be gained in England.

Di lies of Inspectors General of Ordnauce

An inspector general would be held responsible for the efficiency of the several arsonals and depôts in his circle and for the carrying out of all instructions he might receive from time to time from the director general

He would have to conduct all business connected with the arsenals and depôts in his circle,

except such as related to the account branch

He would have to inspect the argenals and depôts in his circle hiermally or oftener if

It would be his duty to carefully examine and check the following documents from officers in charge of area als and depots before submitting them to the director general, giving any further necessary information regard ug them in a covering letter -

I —Statements of machinery required to be obtained

II -Estimates of cost of ordinance stores to be de nanded from Pagland

III -Requisitions for ordnance stores to be obtained from Lagrand

IV -I st mates of detacles required from manufacturing establishments Y -- Estimates of articles required from local markets

VI —Esturates for permanent and extra establishments &c VII —Statement of buildings to be creeted

He would cheel and pressall tenders and contracts from presents and depôts in his onele

He would be expected to exercise a strict and cureful supervision over the expenditure of the sanctioned budget grant He would be responsible for the maintenance of the established proportion of stock in the several

arsenals and depots of his circle He would have to audit all indents for any theorized stores and those on payment from regiments,

butteries and departments, and a senal indents, for randing those on manufacturing est bloshments to the director general with his recommendation

He would have to submit monthly to the director general a statement of the principal ordinance stores a the meet als and depote within his circle

stories our recovers was even even on an approved.

Stores arrived from Legisland for its erectle would it existinguish under his orders.

He would have to submit quarticity to the director general reports on the qualifications and characters of the variant and non-commiss encil officers under his orders and anomally a report on the al masters and qualifications of the commissioned officers under his orders

He would have to submit annually to the director general a report on the working of the branch of the ords not department in de his supervision, giving information and statistics on all matters which he may be coped to describe to being to the notice of the director general

The assestant a spector-general of enduance would ud the inspector general of enduance in the discharge of li his duties and assume charge of his office during his absence

Color A S Circui v n a Officialmo Depoty In pictor General of Orlandically Linguiston

I am not prepared to give an option as to what should be the person sel of the head quarter administrative staff of the department of amaly mated in the above of information as to the extent of supe vision and control it is intended to rivest in the head of the department

over the ordnarce der rements of the other presidencies as regards the admin stratus staff of the minor per identices. I am of opinion that no reduction could be effected in admin states will be seen minor for inclinity of the states increased that decreased by constant reducers and schools on of relimb to Bengal. There is now ample with for two administrative officers and the small office establishment at their disposal

Wayer General W S Hatch Inspector Concret of Ordenoce and Magazines, Bumbay I think that in the event of in imalgamation of the orderace departments in the three providencies, an idministrative staff as follows would be requisite —

On, director general to set as situes to the Government of In In, to examine demands on England from assenals, preprie indents on Home Government. This officer would, I think, necessarily move with the Government of Inlin, but a great part of his office might be stationary it either Cluetta or Simila.

One inspecting offers to inspect all insends and factories periodically, and to make a gent inspections when ordered by director general. He must be in offices of considerable it inding and expensive One departy inspects of general in one-hip revisione, to extunite remaintive proceedings creating indicats for stores not outdomzed by equipment tables, raisage for distribution of stores within his presidency, and conduct correspondence with local authorities, and probably one assistant in Bengal, to be tuthough to the office of the deputy inspector general of the tip owner.

be attached to the office of the deputy inspector general of the postures.

I ven with this strift I doubt whether the wood could be carried on so well as at present.

An inspector general can now visit a partion of his attents and instories not only at the formal inspection, but when there is any subject for coupint, which could headly be the case with a director.

general at India head-quarters, or an inspector constantly on the move

4 Should not all the multiary factories be under the chief officer of the

Mayor General Aspect Campbell Office ating Inspector General of Ordnance and Magazanes, Bengal

ordnance department in India?

Certainly I believe very great economy could be exercised if they were

I have good reason for behaving that at the present time of my writing this answer, were I in prossession of certain detailed information which I require before I can commit makel to assume the responsibility, I might prove the perfect practicability of closing one of the gampoulter

Imight prove the perfect practicability of closing one of the gamposel factories, if not at once, at no very distant period. But I have not this information or the means of obtaining it, save by assuming a position which the inspector general in Bengal is not entitled to

Colonel S Chamer na Offcating Dept ty Inspector Ge rul of Ordonne and Magazines Madras

The arguments used by General Codell against the phone of the enhance departments of the three presidences under one hard an doubtless applicable to any similar proposition regarding the factors. Unless the factories are under local control, the magnetor general world have to refer to Bengal for sanction for the numericative no the gen carriage factory of studies of every description, and many delvas and much inconvenience mightacoreus therefrom

In we paper which I have are seen hear I observed the slightest fault from a with the working of the Madran features. Service some fault to a consoled should be found refer as proved good speak under all Histories for factories of the 10 cm promisioners have fully folgod each often wheever possible, and where there were not not read to have, as they always, I believe, have been I are some of we may for most where were control exercise by a discious, and necessarily to a certain extent sporse; if, affined would not be neight

Major General W S Hatch Inspector (ene al of Ordnance and Magazza es Bonalus There is free intercommunication between the three majoretizational, and so fu is my experience goes, each of the three has short through willingness to wast viry one of the others so that I low the see my necessity for plungs the frederice under one head. The only advantage to be guined is that probubly a cential uthority would arbitrary to the source of the collision of the collisions and the collisions are experiently as the content of the collisions are the several fractories than is the case at present.

5 Please state in ideral your opinion of the economy which would issulf from a central authority, as a director-general of ordnance for all India, controlling the indents on Dippland, the estimates of arsenals generally, and the expenditure on local supplies. Will you be good enough to detail the process of preparing and checking the indents on England?

Major General Nap or Campbell Off cust no Inspector General of Ordrance and Magaz nes Bappal

An officer such as a director general of artitlery for all India to a whom a central authority were rescried, would be an a position and would have appear times to reserve the worker and intentioned Government with regard to ammunests, equipment, &c., throughout the country, and could submit, without unnecessary delay and subjects connected until each for the connected count of its 6 connected in the order to the country.

Onnected with such for the consideration of the Government of It dr.

Having the whole of the mundiculuring establishments under his direct control, he would not only how the resources and expectly for work of each and all the features in India, but would be in a position to resolute them with the regard to complements and a norm.

soft klow the resources and cipically on were in constant in our exposes in many we were a position to regulate them with dise regulat to requirements and excount of the states and in the worlds have before him a states ent of the entire steemes of all stores of ordinance supply would be in each and all the resemble throughout high, and would have be in a position to distribute them as required, and check the nunceusers demand of any from Lingdon.

Appendix IV (1173)

With this knowledge in his possession he would be in a position to check in lents on England and the estimate of was als a the far better prospect of effectually and economically controlling the expend ture than when the mork shope a timen a ma to be distinct offices a not one of high is a cl complete aformat on at the disposed of the officers engaged in the work of preparing those returns

is regards local supplies the common res iting from a central author by would of he so great as a the other two mistances. It we ld gene lly be found that the cost of t ansterring sto e of purely local supply from an a sensi when a s rylus existed would be greater than purchasing the art des at the stylen when they are deficients

I s voild not loid good in every case. Some economy however would result from reque tions

for store of local ply he og checked by a central wall only though the concern mg bit is stight.

The Lector a which to leed from consclenible electors in the expendit a cell the order intent is in the ed at m, of demands on D gl of B and, timels for encepthered that a visit of various terms of the cell many of extens a arn ame to for forts a latition entres of aftige

I e process of preparing and cleek up the indents on B gland in the Bengal presidency is as

Blank forms of indents are forwarded to each officer in charge of in arseal or factory to be filled p and et uned to the rilaruse office

The pform ten fun shel the e returns comprese the est blished proportions to be maintain d

the stock in 1 of the probable respect to one or the same tag proper to one to the substitution of the probable respect to one or of the same tag protoco of the office alone and the probable shainer in show at the commencement of \$0 \circ \text{the filled} \text{ spect} and \text{ the office alone} and the probable shainer in show at the commencement of \$0 \circ \text{the fill} \text{ spect} and \text{ spect} and \text{ spect} and \text{ speciments of \$0 \circ \text{ speciments} and \text{ speciments of \$0 \circ \text{ Williams and All littled speciments and \text{ of the fastor said \$D\$ in Durn Isl upon Compared. Compare and Patel g rh The other includes the requirements for the ursenals of Pero epore and

To take the latter indent as an example A tab lated statement s prepared howing the propor t on and stock at Percepare and the proportion and stock at Pesha ver and the su plus or deferen y is calculated

no cucument

As far as poss ble the deferences are obtained by transfer of stores from the surplus shown a
the off or statement prepared in the same manner for the lower a sensis and factor es

The remaining definences on such as are come dere I absolutely necessary to be obtained from England or noted a the talulated statement and from the orde s passed thereon the indent on England for the upper a senals s prepared

Con 1 S Chimoer B.A. Offi e I Dep Inspecto Genera of Ordon no and Marrianes M. dea

A central a tio is removedly a d o to to costs of notey and off e easy controlls g the detals of las a sthate complete backledge of

chien w materiani M em compression de la fedit in gl. I as a di have compres elevatelego de la fedit in gl. I as a di have compres elevatelego de la fedit in gl. I as a di have compression and the greating as a fedit in the state of the fed three shell in the state of the fed three shell in the greating are not though enabled to the state of the fedit in the state of the fedit in the state of the fedit in the state of the fedit in the state of the fedit in the state of the fedit in the state of the fedit in the state of the fedit in the state of the fedit in the state of the fedit in the state of the fedit in the state of the fedit in the state of the fedit in the state of the fedit in the state of the fedit in the state of the fedit in the state of the fedit in the state of suivable et et et l'Ibèn deux d'un été copilementeur. Nous aut ui la toil ce respondence ett é e au tiffe les to occe par jite Govern et ef I d'a au a continuos ade ser le cu : pous hij by s' ut p usual sport e male l'esté a q a utel a th'act al coal, dela cen a l'artifecal un te de Decil de y some species out of one of a cure a new a consecutive consecutive (recurs in Sac Design of these as the recurs a cap period with an activative a chiefe sharp and period to see the sharp a riph as dense are recorded as a split the operand tell it are a split to see that the period is a consecutive to the a dear and see the activative and the activative the activative and the activative the activative the activative the activative that a see that activative the activative the activative activative that activative the activative activative to the activative activative the activative activ

Ge e al Cadell a opinion on the first pa t of this question will be found in the extract recorded in

uncour gly to the at dy a d ust also role i welf at a tel cor expende or

answe to quest on 0

Tie following is the procedure observed in the prep rat on and checking of indents on Engla 1 In the first place an indext spread by the comments of our neem charge of the was all for St. George the largest and most important acress all in the Madras presidency it can all of stores out to devine the trigger and makes beginning when it is not the tracts pass sense; I can a to a surrea or goally more affe on Legal of " of the total desire bothe ordinance, assen is depicts o a negar to bedrapping to the Mairies o disance department. The total desire all needs in loss if on the seq commission of all the and have its freedomes and depicts as also those of the a small steelf. It is then sout to the s printen lenks of f to es by allow their respective requir ments ale a torod and then fo warded through the ordinance officer. Mail as reserved to the evaluance office. Here it is elicaled as to monicular clat e. It sthe ent to the exumner ordinance accounts who returns t to the inspecto general of ordinance and in gurines aftir has inguise ted in the appropriate place, the number or quantity of each article dem rule in the indext which sat the time in store. In the odd nee office a careful calculation a made will the view to easing that the numbers or quantities of the articles demanded un the mudent yin the cofolke kind unders privitema borne intpis those of nile kind in store on the die the requisition is mederal and exceed a three perus surply which three years upply s eale lated e ther on the average not I expe : his re of the three years peceding the dates of submrs on of indent or or the not all expendatures of the year named attriby presenting such date. Of not we in eases n held distinct distinct allot ments a c la d down the demands are regulated with a new to m int in s el ni si oul i the necessity ar se for p ti ng fore wla eq sat on in even of my established allotment a sat f ctory wason is a curio t e special and race. we demand by no made

ments and I dony wom may ento a special rateful side as it is true to be demanded from When then makers of a sit for of the overal rateful of side a lid but to be demanded from home in side I said by the majoriter goveral that many livest some one and middle of the servings of our increasionants to make their differ to cathe in this value at c oh a tob demanded as records in the produce before. The own, it Mahara sends in deal this and the best ent of the some need and checked in severy drink, the home nadeat is prepared from it in the olice of the majoriter-general of

ordinance and magazines subject, of come, to my further modifications or alterations which it men in the interval be found necessary to made, and which by reas not the arrival of stores from I neglind or other can es have frequently to be made within a few dats of the final desputch of the indent to the controller of military accounts by whom the document is once more forwarded to the examiner of of orange examination to comme zo and it exists and of contract of the existing of orange executive of discover any very senious errors in it he would return the indent for further revision but it is sellon if ever, occurs. The indist, it is hown from remarks nade i pon it, is subjected to scruting by on lere of the Go ernisest of Irdia

(1174)

Mayor Ground W. S. Hitch Inspe or C. and of Ordnauce and Mayor new Bombay

I do not think that there would necessarily be any economy from a central authority controlling the indents on Lugland

The proportions of stores to be I epi up is now disnitely laid down. equipment tables for ignments and batteries have been published &c so that the demands for store on Home Government can be easily regulated. I am of opinion that the excessive demands in former years have been caused not so much by the want of a controlling authority as by want of standards aboung seed, on which supplies should be light up. In matters such as pittens of critinges &c there is specially lean identified each lies a cliented agency in Europe large lies. Clinges but been ordered for the fire presidencies by the Government of India acting on the advice of the inspector general in Bengal, will out my reference to the other p endencus and the result of the system has not been about agrous. I would instance the changes m) pr R M L curinges regarding wooden and iron arketice beds the cost needles Is caused by which mus have been very great, and the difficulty which recently trose shock by made as only rectified in cone quence of a reference made by maself, and again the confusion which has a sen about locks and spring turn buckles for ammunition boxes

In It gland the dictor general of ordinance has a mamber of selected officers to assist him. The several inspectors general might constitute a sumilar consulting body, and if they were allowed to do

so, I think that there would be less probability of mistakes than is now the case

At present near the Res pourcounty or missace sum is not use ever At present in the Bomby p evidence, each in early nuclear an annual indext (in which stors required from Lin, band to medically on the Bomby vesser). These indexts in cutoffully sentiment in the ordinance office by the departy inspector general questions being put as to the necessary for preoring particular stores the necessity of the demand for which is not obvious. These indents are then possed on to the Bombay arsenal, which then prepares an indent for stores required from Li gland, both prived on to the Bombay arsen'd which then prepares an indent for stores required from Ligitand, our for itself and other iteration. These describes and those from the factories are gene evaluated in the outrience office is withen all do bothly loant have been settled, the general indent is prepared, and sent usual itself by item, first by cleft s, and evalually by myself. When recell, the understanded is established the evaluation of continues occurs for volution, and subsequently to the controller of indicate necessary by whom in the property of the controller of indicate necessary. It whom in things he may than objectionable in the indent is brought to notice. The m lent is then sent to the Secreta ; to Government Military Department Bombry and afternaids to Brugal, where it is again examined, and is finally criticized by the store department in England

What will be the approximate saving, present and prospective, if the iccom mendations of the Ordnance Committee are effectually carried out?

Major Gorl Lapser Campbell Official og In pretor tie er l. of Ordnau e and Majazues Benjal

This is a question it is impossible for me to unswer, even by approxim

Tile Government of India by adopting the recommendations of the Special Committee on Ordnance have I believe, been said from spending upwards of £400 000, which would, but for their recommend already have been spent

I cannot commit myself by saying what prospective sayings will be the result of their recommend atoms. There can be carried to a doubt this provided no great scheme of procuring new variants of a costly land from Ln lead are proposed, the reduction in the reserves of ordinance, order to carrie gas garponder small arm amountion, to, to, and one our reserves are complete, probably had to a great economy in the reduction of one or more of our factories

I cannot give in figures any estimate of prospective savings, but any ready to answer any questions that my le put to me with the view to my establishing my masons for expecting that savings will result

Colcael 9 Clamer PA Offg Dy I e Gl O & W Wadras.

Proceedings of the committee alluded to not yet received

Mayor General W S Hatel pritor Gournal of Orderance I pritor Guint of C and Migazine Hembay

I have not yet seen the whole of the papers connected with the recommendations of the Special Committee on Ordinace, and am there fore unable to reply on this point

7 On the recommendation of the Ordnance Commission of 1871 75, ordnavy indents are now dealt with by commissaires of ordnauce, instead of being sent to inspectors general. What reduction in the office establishment of the latter does this admit of ?

Unjor General Naper Campbell Official g lapte of Ce el of Orl ac ud Ma_na uc besgal

The office establishment of the inspector general of ordnance has and once carminament of the inspector general of outlander and feen reduced by two madrics on monthly salvey of Ha 110 cells salve the salven has been introduced by a find ordinary indicate are dealt with by commissances of ordinate. It has been found impossible

Appendix IV (1175)

in the meantime to effect further reductions. The new system under which regimental indents are dealt with is seriedly yet in full operation by reason of the difficulty that has been experienced in getting regimental officers to comprehend it or to conform to orders lately issued on the subject. The late war also has caused the accumulation of indents, which now encomber the table of the assistant to the inspector general of ordname in abnormally large numbers, and it will be some true be-fee the ureurs of indents are brought up. They are still coming in dated so far back as November or December 1878

Celemel S Charmer n.a., Offic Deputy Insper-Gent of Ordunao and Maraxanes Madras

No establishment ever existed in the Madras ordnance office for this purpose, the system always in force being that proposed by the Ordnames Commission

Major General W S Hatch Inspector General of Ordinance and Magazines, Bombay

There are only three clerks employed in the indent branch of this office They are fully occupied, as, although the indents for authorized supplies no longer press through this office, the number of other indents for supplies to troops and for supplies to earl departments police, volunteers, is very large. Morcover, this branch of the office examines committee proceedings of all descriptions, which are very numerous I do not think that any reduction is at present feasible

8 Can you suggest any method by which the expenditure on multary stores, whether imported from abroad or purchased in India, can be reduced?

Mayor General Kapper Camp bell Olimpting Inspector General of Ordinance and Magazines,

As far as concerns the supply of local stores at stations other than presidency towns, I can suggest no better or more economical system than the one now in force

If tenders from contractors at these stations are very earefully serntinized and the lowest tenders, except under pseuhar circumstances, invariably accepted it may be taken for granted that all articles of local supply will be obtained at the lowest remunerative rates at which they can be supplied

I of course mean by articles of local supply those art cles which can be manufactured or purchased locally, cg, tents cloth, certain descriptions of rope, &c, &c I do not include in the term "articles of local supply" those uticles which have to be obtained by the contractor from England or from a presidency town eg, English thread, screws, Manilla rope, &c

The former are obtained from manufacturers dures, and supplied to the department with only a slight addition to manufacturing rates. The latter have possed through so many hands before being

signs assumed to manuscenting rates. The inter more present accordance to many names neutron local delivered to in meant, that a very considerable increase on their original cost has to be paid. It is possible, portains that the expendators or account of witches obtained in Indir (except party load store), is well as of many now present by unders on Degland might be reduced. There are respect this Despoyer intern of Debetta Markas and Benthy who would gladly under-trice the duty of providing the ordinance department with some stores at least from England or Debettame.

In March 1879 a proposal was submitted to Government by Messus Gillanders, Arbuthnot and Co for the purchase of stores in England and on the Continent One can process a stores in angular into on the continent.

They prospect of send outgrad invoices of the supplies of goods and give the department the hearth of all trule decounts and allowances of any descriptors for which they might be able to arrange their removes shown hung huntred to 24 per cent. commission on cost and charges setually

Of course, it would be necessary to complete the details for working out such a scheme, but I deresay that by this method, or one somewhat similar, a saving might be effected in the annual

capendiane on military stores, and the deby which non often occurs in the supply of stores wooded.

Turther, it would be unnecessary to maintain the large reserves of many stores now kept up in usesals as such stores could be landed in India within six weeks or two months from the date of the order being given to the agent

these toning greats or the organic.
This, journeys, is matter into which I have not yet cranumed fully and propelly. I have had no time to do thus and menty other things which might lead to commony, if I only had more assistance to get through current word, expecually at this time, when the results of the war are telling on the

Calonel S Chamer n.s. Offg Depoty Inspr Geal of Ordnanes and Magranes, Mudras

I can suggest no method, except that of reducing the present ordered reserves of trms, ammunition, carriages, and acconframents, &c These alone guide our demands on England and our local purchases

Major General W S Hatch Inspector-General of Ordina to and Megazines Bombay

I think that the secent orders under which heads of departments are alloned to procure stores other than purely warlike stores by private arrangement are likely to emise considerable saving, and am of opinion that this system should be friely tried

I thank the existing system for local purchase works well, but for heavy supplies, such as that of coal at night be desirable to make contracts in England, or to employ an agent to procure a supply

9. Can you give the Commission information of the system obtaining at the India Office and in the India store deputment for the supply of stores to India?

Major Ceneral Namer Cump bell Officiating Inspector Ge orth of Ordinance and Magazines, Bengal

I am not familiar with the system, but I believe all articles which are manufactured in the different departments under the Wai Office such as ordinance and small arms, are, as a rule, obtained by application to the Wm Office direct, to which the director general of stores simply writes riter a defirmal received from India is approved by the Secretary of State for India, and says that such and such articles are required. The War Office in reply informs if the articles can be supplied. or not

Some supplies are obtained by contracts entered into by the director, general of stores at the India Othes

Colonel S Champer R & Offg Deputy Inspecto terms al of Ordnancoand Vagaz nes Vadras There is no information in this office of the systems referred to, for their than from perural of the in monthly return of stores under supply It appears that the majority of the stores are provided by con trict, the remunder by the War Office

May Gool W S Hatch Inspe-Genl of Ord & Mag Bomboy

I have no knowledge of the system, except from rumour

10 Do you not consider that a saving might be effected by the supply of multary stores dweet from Woolwich or contractors, without the intervention of the India store department, to the ordnance department at Calcutta, Madias, Bombry, Kurachee, for delivery to arsenals, and what general arrangements would you propose?

Major General Napar Comp bell Offscating Inspector General of Octunous and Magazines the Lorin strong Montaneth but that heavy loss well be effected by obtaining the Indus stone department, but that heavy loss will be entailed as India if such a course was adopted

Officers in this country have not the opportunity of accordanting the best sources from which to obtain stores, and it would be impossible for them, when requiring stores from contractors in England, to know to whom to apply

And I may add that a very serious risk would be incurred in receiving stores from contractors

without examination of some kind before despatch from Lugiand Very great difficulty will be experienced in rejecting stores after arrival in India, and contrastors in India will not storest to the stores supplied by them being examined in India willnot charging for the riel which they meur thereby

To obtain stores supplied by contractors in England through the War Department would be to necut an unnecessary expense of 5 per cent on all stores thus obtained, and in the case of the War Department having similar contracts for its own service, the Indian demands would be postposed

Department with granular conserves for its own service, for music definition would be postposed.

I have diversly pointed out, in my feely to question No. 8, how a saving may be effectedly obtaining stores from Legland through respectively homogeneous firms at presidency towns. Sooner than obtain stores from contractors direct from Legland, or through the agency of the War Department, I would advocate in extension of the above system

Arms, ordernoe, and much stores as are manufactured by the War Department should of course to supplied to Lath from the War Department, but even with negred to there stores, I believe that an examination by an authority medication of the War Dep attenuents is necessary before the deputh of such stores from England

I did at one tume feet half inchined to recommend our relying on Woolwich for all stores with Woolwich could supply. On second thought, I think it is as well to have some one to rate the interest of Innie in the Inniv Office Mach will depend upon the presence or present appointed to see one this writefulness. Some one like Mayor W II Noble of the Roy II Artillery, at officer with interest of Innie. had the opportunity of maling himself well required with the working of the ordernee department in India, and is at the same time familiar with the method of doing business at home, would be adapted for such a post

Colonel S Chara et E.A. Offig D py Juspe Genl of Ordnanco and Magazines Madros

This matter seems to have been fully considered in the proceedings of the Government of India, Linanoual Department, dated Smila, 5th November 1878, No 3017

Major General W S Hatch, Inspector (entrol of Ordnance and Magazines Homba).

I think that as regards material, a craining and better stores ungel be obtuned through the agency of contractors and would employ load agents, some of whem will procure stores on a very moderate commus son. I have procured much better iron in Bombry than has been sent by the India store department

I think the intervention of the India store department in procuring stores from Woolu ich advisable, mamuch as the officers of the department become an are of changes, and are able to after or cancel demands when the stores asked for become obsolete owing to change of putterns

I have known the store department do this

(1177)

11. Will you state your opinion as to the strength and efficiency of your establishment of warrant officers?

Major General New or Campbell Office of ag Tunpto or General of Ordnance and Alagazznes Brogal

The established strength of warrant and non commussioned officers of the Rengel orderance department for duty in traenals and depots 18--

3 Deputy commissance of onlineace atte 3 Assistant ditte 3 Deputy asst datto ditto

39 Conductors, including 14 permanent conductors 22 Sub conductors

\$7 Magazine sergeants

The establishment should be sightly increased to ensure the efficient working of the department I attach copies of correspondence which has taken place on the subject. At present the supervision is not effective in the Bengal excannee department, and loss of Government property is inquently

There are many good and efficient warrant and non commissioned officers in the department; come few, I fear, not efficient. These were more of the latter land when I joined the department, but

I have got rid of a good many I attribute whetever inefficiency there is emerget the warrant and non commissioned officers of the Bengal ordinance department to the want of careful adection when admitting them into it, and the fact of their not having been subjected to sufficient stringent educational tests before admission

Late orders of Government amend these defisets

Estract from a latter from the Officialized is qualter-General of Ordinance and Magraines, Bei gal, to the Secretary to the Government of Indian, Military Department,—No. 671, dated 17th May 1878

26 The authorized establishment of commissioned officers for the Refablishment of commune uned Bong il Ordnance Depurtment 10-विद्यार होते 2

Commissaries of ordnance 1st class λad " Sid "

ont of whom we complete a tunder agent, leaving only seven for ansemals and depote, and those afficus are at present distributed as follows: \sim

COMMISSARIES OF ORDERANCE

Tiret Class Major F V Pyre, e.s., on leave of assence, medical certificate, six months Captain G Lamb, e.s., in charge 1 ort William Arsenal

C Cowie, n.A , in charge Agra Depôt

Second Class Captain J A S Colquiroun, R A , in charge Priorepore Arsenal, officiating list class S Cargill, E.A., proceeding on leave of absence medical certificate, six months.

Leard Class

Captain R. Barett n. 1., Timber Agent, officeat ng 2nd class ,, S. Murray, n. 1., in charge Allahahad Arsenal A. F. Flotchen, R.A., in charge Peshawan Arsenal

F Gulloway, n. a. ordered to Fort William Assemil, officiating 3rd class

When, therefore an officiting appointment, see Captain Cangill, is made one of the leage a schols will be left with only one officer and at the others the jumos commissary will be a newly appointed officer, who will have all his work to leurs

27 The establishment of so we officers has to samply a force of about 109,000 men of all arms, occupying upwards of 100 statuens, and distributed over the whole of the presidency from Calcutty to Peshaner

23 With such a hauled number of officers, the dottes cannot, m my opinion, be 1 roped by conducted,
23 With such a hauled number of officers, the dottes are to meet that mess of such to shall extensive

or in 11 time of peace, and to need the requirements of war, to meet the press of work which extensive operations would entail on our areands, would, with the present establishment be, I subjust, impossible 29 I know it may be said as it has been and that in such a case office a cottld be obtained from

I know have a consider the supporting that artillers efficies could be spreed, by two for each archael, protected have being of the use of stores, though quit reassessey to the unper performance of the other of the other of the other and physics not show sufficient. Until an officer has made himself when the other duties, ho cannot affor I much real assistance

30 In addition however, to the number of officers required to reast in execute, provision would have to be made for the earny in the field. How are officers to be obtained? A few must necessably be talen from manyls, as it is quite necessary that the sense officers with the field train should be acquainted with the dates of supply. But nearly the whole would necessarily be talen from regiments and batters, and the artilley agran would be expected to supply, if not all, the greater portion of the number required. If the membranesy of the present establishment is doubted, I would myste compressed with the War Office establishment. 31 In mading such a comparison, it seems to me to be necessary to take auto consideration the

requirements of the forces rether th a their actual numbers.

83. The establishment of the army in Bengal is about 109,000 of all arms. Of these about

87,700 are British, and the remander, or about 71,000, are Natave troops But the ordnance supplies

Appendix IV] (1178)

to Native troops are less than one half of the supplies to an equal number of British troops Tor parposes, therefore, of comparison between the Bengri and Wat Olice store departments, the establishment of toops in Bengal may, I think, faulty be considered as equal to 70,000 of the Home establishment

SS On reference to the Army Lest, it will be seen that for the comparatively small force in Ireland, there are 18 efficies of the stees department. The demands on that department from the abole force in Ireland, regular and annihary, cannot, I Les suce, amount to one Iril of the demand on the Bengal department According, therefore, to the number in Iroland, there should be about 40 ordnance officers in Bengal

34 It may, however, he said that the home system of having depots of stores at all the principal stations necessitates a larger number of store officers than would be required under the Indian sistem No doubt it does, but I see that of the 10 officers in Lieland, 10 are at Dublin and 5 at Cork. Striking out therefore the officers at smaller stations, there remain 15 officers for the supply of a force whose requirements, I am convinced, are less than one half of the requirements of the army in Bengal

35 I have taken Ireland as on example of the home system, because there are there no very extensive coast arminents, no steps trains, and, compared with Bengal a very small force of artiller, 36 It may be that the number of store officers in Ireland, that the number in fact in the whole

department, is in excess of its activil requirements in peace, and that with but little augmentation it is sufficient to meet the demand of war. It this be so, the anomaly presents itself of an army at home on a perce footing munituming a store department calculated with but slight increase to meet the requirements of war, and maimy in India on a war establishment with a storo department insufficient for the ordinary requirements of perce

87 I see that in the war establishment of an army-corps assed with army circulars, dated let December 1877, 29 ordannee store officers and 200 non commissioned officers and nutrieers are included

for a force of 30,993 of all arms

38 Assuming an army corps of similar strength required for service in this country, whence I would as!, can not that number but one-fourth of that number be obtained of trained officers? Our arsenals, far from being in a position to spare a single officer, would require to have their establishments at once meressed

30 Some officers, however, must be (a) on from them, for it world, I submit, be utterly wrong to leave the spiply of such a force in the hands of officers unrequainted with the work. For the remainder the artillery again appears to be the only resource.

40 It may be said that, in estimating the number of officers required for the department, the 9 warrant officers with honorary rank should be tal on mito account. I do not think they should. Under proper supervision they are no doubt good subordinites, but they have as a rule, neither the education

gauget empercason any are no count good amountaines, one may now a runch manage are encounted nor intelligence necessity to qualify them for the responsible datases of a commissioned different at the new upon that department one, as rule, only average specimens of the non compusioned grades of the army. Men whose scal and ability have already obtained for them the position of staff sergeant, or even men likely to obtain that position, do not join the department. some suggestion, or even men many to count turn positions, or not you are department. In the many threatens, who you this department, and who by good conduct and industry use to the highest silker diands grades are not qualified for dates requiring the educated intilligence of the commissional officer. They are solder of the car analyzandent of age. Moreover, promotions in the department large others: "Only the sensors are a distinguished or "ogs". Accessively promotions of one approximent ones and animal enterty by a sensority, were and officers of not of two lineous promotions and in the days are past, and old ago as spally readening them until far if we reduce dather they would be to be perform in the field. The youngest of these offices is the present time to 5, years of 95, and the sensor 60. (I restame to them that the interfaction of compulsor retirement at a fixed ago for the whole of the warrant grade would greatly benefit the depertment.)

42 I have stated that staff sergerats will not join the department. There is, however, one note Traite season cause state expense and not join the department. There is, nowere, one new worldy exception. A bottery quartermaster seignant of high character, les upplied to be enabled as a conductor, and the cresson he gate much lead 1 with him at \$4500 at this the new organization of the artillery so affected his prespects of further advincement in the regiment, that he wished to join the

department

43 In my endeavours to show that the present establishment of commissioned officers in the ordnance department is insufficient to meet the requirements of the service. I have been returned by a regard not more for the interests of the department in which I am officiating than for the interests of the service to which I belong

44 In all that has been done of late years, and so successfully done, to place the many in this 44 In all that has been done of lvic years, and as successfully done, to place the rany m the country on a thoseshylo effected sixth, this improtest a speply depriment Ps, I rectains to lists, and merely been allowed to struct still, into the the action to in m radioning its establishment of officers be been forced to retrigente In 1870 commissions of orderines were removed from magnitude and magnines were concreted into depote and under a versant officers deverge, and the cylabishment of commissions of observatives of the 18 to 8, enclosing the truiter agent of commissions of observatives of the Homes and Bengri establishments; I do not wush this low interested with the low and the stabilishment of the supersidency in proprise to their matrix at home. I would not, for instance, recommend that the department should be so engentical as to be resided to financial the inner complement of \$0 of officers, were for one can my ores, in addition, the sequence for its inversion and depths. But I do recommend such an increase to the Bengal establishment are will admit of \$0 or officers for the survey of the propriate of the matrix.

required for its area-rise and depths. But 1 do recommend such an ancrease to the Bargal establishment a will admit of 5 or 6 disease; truncal ant advises of stopply being easit with a urange without appling our unemals. Bull amployment, with beneficed besults both as requise effective and economy, outline from a few collections are called from the proper of the state Parit unemal would require 8, and to the Agra depth, which should, it shoult, be made a second class wavely also made to the testing of the chipts, Mondan, been famed Kirne and Parity 1994. propose 1 This would include an establishment of 16 offices in all, exclusive of the tumber agent of 18 the event of a large force being the first, I would propose to withdow one other from each of the image areanals and depths, and if necessary freet one of the more depths, supplying their places by artillery officers. This would gree 6 tumed offices for the field force, any more that the required being obtained from the artillery.

(1179) [Appendix IV

47 The addition I went a to that a not one two many. It will cert thy place the department on a state of theorogic edic one during price the but will only provide a limited number of editors for the field. But it it and examine as may easen bely be expected from the art livey that number will I thank be for a significant.

48 One more subject connected v th the estallishment of comm come lofficers I wish to One more suggest consistent \ in the even a warman \ \cdots \ \text{out} = \ \cdots \ \cdots \ \cdots \ \cdots \ \cdots \ \cdo des able that the rule limiting appointments to fix yet's should be at only enforced

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total said of a binding my or one of a forest matter that each in stated in his owner letter No 61 of 1 th lary 1878 I will therefore only say that the landsheight I he a store and wid the oak pof 0 s day timent 1 af 1 ly coal mod men it do sym on I the si ever I is now overtraily not ecomomical in order for the Deri Hermit | Ehma mamum ton dayor inch hera so I consider the tot I unshe then recommended too many but because I do of think that depth wo like good school for a young offer until the little to I done these may vil be left to it a done these may vil be left to a set day "rurnit offer of sig o grade. The correst therefore cow proposed as from eight communicate or inneres as recommended by the O din nec Communicate in to fifteen

3 The more use of arra t and non communes one I offens which I have proposed as but small,

and is in my of non also their req red to proceed receives the travel proposes is not something.

If it is proposed in whitten is now a segment for each of the first-elves orserved. There we like it may be taken in the conditions of the conditions when the chief or it must. Cannoncers we absent on tour of respection

5 In the c tall st ment of I sours I have proposed I tile alteration except as regards pay 6 Both in Cule the and Alla abad naces I we risen consider bly of late years and good labor ers cannot be obta 1 ed at the old tes. I eed sea cely observe that to one re good mon artificers or

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therese was the filmen and lam me men Il sac esse is e t ch for the least sage that is in my op one lead of able by the n fodution of neglt-oner ges for s se and fill a tillery. I would home cert all of Ivocate any er use to the pe nent est bl sl nent of these or othe at fice's u less the neres ed tes et j lelline e on dulse them beg tel fire are 10 do bt of sections to pe n ment are to up storper consist of promotion establisments of volume is pointed of all oragle of the Commission report. The edited by the good effect. It is sometimed to be a decided by the good effect. It is sould be ped end on the effect I helonid to pour our our manifest I helonid to pour our our manifest of the last of the manifest of the control of the ex tal k set! a small je ma e testab lush ne to relly good o kne Bri vicin uniestallushment of fernor

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10 The scale of establishment for factories is now under preparation and will be silmitted shorth

Comparative instance to sear a total as sity cross its cot account of cut oil i cut for a surely cut depute to the Be gady reads by an proposal by the Od a co Co anno a i as no nece no lelight of Ogents of I species Go eral for lace Be gai

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Colonel S. Chema RA Officisting Dep by Inspeciar General of Ordinance and Maga zons Madius

There are sufficient war and officers for work in times of perce but should an ordinance part be required to accompany a force into the feld great daffie thy would be evil exceed in a pilying the required in their of variant officers from the present establishment.

Myse Gener I W S Hatel Inspector Ge and of O domance and Magnes me Boundry area all as regards quarrant officers s and Magnes me Boundry si flexant that of the other a sensis sufficient that not more if an accept a sensis sufficient that of the other a sensis sufficient that not more if an accept a sensis sufficient that of the other a sensis sufficient that not more if an accept a sensis sufficient that of the other a sensis sufficient that not more if an acceptance of the other a sufficest With one or two except one the narrant officers as a body are of the officent

12 What is the unnual cost of the condemnation of aims in your presidency, and is the system of training of Native armouners a good one?

Moyer than at Amper Champhell
Officer at large or Genery
Obstance and Riegas or Bengri only practical method of t using these men that can be adopted under existing ei camstinees

I however consider that the system under which Native amounters are maintuned at present is faulty, and it might, I think, be improved without additional expense to Government.

The pently officers community regiments of Native infinite experience of fibrilly in obtaining multible men for the post of regimental amounts and during the late war I found it impossible, even by offering additional pay, to provide amounts to send to the Pedrama invent.

I nould advocate the establishment of a corps of Native armourers, who should all be enhated

Tress men could be thoroughly trained in arsensis under the chief civil master atmourer in every branch of armourer's norl, and could be employed in assents in the care and preservation of

the rever as

As an inducement to these men to work and become expert trade-men, all appointments to the
past of armourer with regiments should be under from the corps of A-tave armourers

post of armoure vall regiments should be miss from the corps of Auton trimonies.

By soloning more such scheme, sold after his the base the means of these providing good and efficient
armousers for harve regiments. But in case of war, and when the dates at any particular ansemd
are was heavy there will be no difficulty in providing transed men capable of supervising and repair

mag arms.

A corps of Emmann armonices if one could be agained an olid be a good move Information regarding the annual cost of the condemnation of arms in the Bengal presidency will

be forwarded to seem as obtained from the era miner of ordinance accounts

Daking S. Change. Etc. Of. Average of last three years as reported by the examiner of ordinance

Colone S Chamer B.1 Off Average of last three years as recounts—

Modras

Colonnois and Megarines
Modras

Rs
Value of condemned arms broken up 1 63,895
Value of compenents 9 101

The system is 2 good one. There can be no better instructors than the trained chief evel master armourers sent out from Barland.

Major General W S Hatel The cost of condemnation of arms was—spectro-General of 0 diameter and

| Re A P | In 1870 77 | 91 076 0 8 | 1, 1870 78 | 92 08 563 8 8 | 10 | 1870 79 | 92 08 563 8 8 | 10 | 1870 79 | 93 08 563 8 8 | 10 | 1870 79 | 93 08 563 8 8 | 10 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 1870 79 | 18

99 762 9 5

These sums include the loss by condemnation of obsolete arms. I cannot ascertain the loss by condemnation of arms become unser nearble separately

13 Do you not consider that two gun carrage factories are sufficient for India?

Major General Vapuer Cympleli, Offic ating Inspecier-General of Ordesnes and Major use Bi gal That depends entirely on the amount of outturn of carriages &c, which is likely to be demanded of our gue carriage factories, and the time which may be illowed for that outturn to be completed

unio anno may co morona no man commun no se comported

If only the reserves of sarge truns heavy bitaries and horse and
field articles of sycems sanchanced for fisher have to be completed, and
a revenuble time allowed for their completion, I think that two g me correspondences might suffice

for the work?

But if orthornes for coast defences for forts, custan, or contemplated, for "pieces lingth sattler

But if orthornes for coast defences for forts, custan, or contemplated, for "pieces or refuge,"

& & & have to be I you lie! and that writins may very limited lame it w necessary to have correct

and minutes are to the extent and unitered of such remembers, and the period writins which they are

typical to be provided before it w possible to say how many gen according factories are needed to

complete them within dark second.

Colonel S Cham er, R.a. Office onter Regula Inspector Ger erat of Old auto and Megaz nes Mad as

In my opinion it is advisable to retruit the number of guin currage factories as if present. Contribuzion in the manufacture of warlike equipments, such as ire trained out of the guin crimage frederies, might, in the event of communication being cut off, lead to desistence results

M per-Ge eral W S Hatch I of et at entral of Ordsonto and M grass cs Bossbry

I think that when reserve sage trains and heavy field batteres have been completed, and the Bongal gan carrage Sactory removed to Althahad, two gan carrage factores will be sufficient, but that now, and for probably some years to come, three we required

14 Can you suggest the abolition or modification of any other military factories in the interests of economy?

Mayor Genl Nup er Cumpbell Officiating Inspector General of Ordnaice and Magazines Bengal

I cannot, with my present information. I believe I could if I had the information needed for the purpose

As I have already remailed, I think it quite possible that one gan powder factory might be closed, if not immediately, at an only date, if the reserves of gunnowder are as near completion in the other presidencies as in Bengal But thus I cannot say

If I had a little mere assistance in my office, even for a few months, I could go mto the question, but as it is, I am forced to delay consider ation of such matters, important as they are, under press of current worl As soon as I reach Culcutta, I hope to turn my uttention to this subnect

Colonel S Champer R & Offg Dy Juspe Genl Ord & Mag, M deux

Hand g a view to efficiency, I am not prepared to suggest the aboltuen of a modification of either of the two factories in this presidency

Mayor General W S Hatch Inspector General of Ordernee and Magazines Bombay

I am of opinion that a more even distribution of work between the gunpowder and small arm ammumition factories of Dum Dum, Isla gruposted 'tte arrivi tra' timinantoro recordes to Dom John, has pose and Kulle avil the dis both cosmon and efficiency, will that the could it once in earned out by altering Krike to supply Kololius and Tecropose. The Dum Dum small arm atministration freing law is supervising establishment meels larger in proportion to its outtom flux that at Kulle or This might be reduced. The Kinker felority could without my increase to its supervising establishment, turn out a much larger quantity of ammunition than it now does, and at a less cost. The Kuller powder factors could do the same, but not to the same extent as the small-arm atmunution factors

Could not a factory which might not have enough work for ordinary times but which from military considerations it might be thought desirable to retain with reference to contingencies of war, &c , be pritably or wholly closed, but maintained in good order at a trifling cost, so as to be available if necessary hereafter?

Major Genl Napou Campbell Officiating Inspector-General of Ordnance & Magazines Bengal

Centrumly I arm see no reason why a factory should not be closed for work, and yet maintained in such a condition as to allow of its being

opened for work in a way feer days when required
The small run ammunition fretory at Kinke is I thinl, at this
present time, not being would at its full power, as there is a surplus
of small arm ammunition in the Bombay presidency

But it is quite clear that if a fretory were even partially closed, the saving in expenditure would be very considerable

Colonel S Charmer RA Offig Deputy Inspector General of Ord nance & Magazines, Mudras

A factory could be partially closed in ordinary times for econom's sole, but could not be wholly closed and yet municipal in a condition to render it available for work at short notice

Major General W. S. Hatch Inspector General of Ordnance and Magazines Bombay

I do not think that thus suggestion could be carried out without vegets and of the failure of the factory so closed when required to resume operations. This super, stange establishment of the factor, the most expensive part must be lopel up, even if 16b, and if 18b, could corriand lies there is il., and to essure efficiency with meaner's active containing the factor is il., and to essure efficiency with meaner's active.

the supervising still must be kept 18 work, and must be practically acquainted with the peculvaries, as affecting their work, of the churate in which they are employed. to quantize that we joint mines a meaning their was, of the consist in which they are employed, it was a Kinde or as first quest, the minest worker, if not-their arm we throughly friend, as we mable at first to the full the exact modifications of the served preceding required to suit the predictives for the elumber of Kinde Consequently seem I trickles of pooler had to be to worked but differently as the control of the product of the order of the control of the control of the control of the control of the control of these observations made at Kinde has been not. Asser et once whet was required, and the possels of these descriptions unde at Karl or he been seek travelably reported on Aguin the unset-norders it Moleras could not be some time up the public powder up to standered. The inspector general et Moleras, after resting a both of Kail et unde powder sent ins martier worket to Karles. He excelled, besured the process of reuniforiate there, and retarned to Maditas where I have been informed, he was again to some time unseconsful as until ung pebble I do not uttrained into tony of the other more content in the consecret in the difficulty tree from the difficulty rece from the difficulty area from the difficulty see from the difficulty see from the difficulty see from the difficulty one of the second of the second of the difficulty of the rester to be difficulty in the first second of the second of the second of the second of the difficulty in the first was a first the surface of the second of the

othering are were sent of fining.

It should be remend each if at although by increasing the outturn of one factory and lesping others of the vame description alle, the cost of the outturn of the one factory coping of might be

mode to up as to the scult would a real type for toose. To obtain the real cost of such outiture the ater stone land u d.b. king pay of supers and establishment and all charges of the factories kept sike should be added to the a m total of the charges of the ork may factory. I believe the tor red conomy and eff case; the e there of end feloy shold be on led as fres just ble con-sciently. It reped to comment mean regard to points of supply and it is the establishments should

stensive a regard to common in our regard power or supply than one means wherein streams there is regard but it of ference to the proposed to the An regards unballed blob of the se no difficult in close up or capital up the strength. The strikes ment it is me this let at earlied cut—let diviged or care is ned as required. But esting a mount is time up to like source that where the dispose of constraints and in the lob mank lied with side ment is the display to and in one of ungenery the first op land to commander do of other care could not be expected to a companion to the care would not be expected to a companion to the care where the care where the companion to find the care where the companion to find the care where the companion to find the care where the the first ; o of the existence were numerous and those complants have demensed a each year

since their establishment

16 Trking any factory with which you are acqueinted will you be so good as to give a sketch of the anangements which night in this case be proposed, and the saving?

Laye Genera Lepter Party be I Off to ng I specio Ge eral of O desente and Ma_es nes

Learnest reply to thus questions a thout looking more f lly to it than I lare non time o apports to of doing. I he ld equire to vst some factor and consult or circal ong nees and meel ance as to the extent to which the a king gerr of mad ne y would have to be menta ed and the estal hishment high no ld I ave to be kept up to and many teas and the establishments in the work of one of the deposition of the control of the fo manufact ng purpo e at the sho test no co I have he as a sat triad and a conthe sal yest and hope before

the Ain v Comm as on closes to attange to be no pes tion to submit

some such si etch as a called for

Coonel S Clamer E & Offi ents Deputy I specto Gone I of Odnu and Magazine Madras.

As an army le I a orded mention that with a view to present a pape of economy o do s 1 e been se ed by the Go e n + t of Mo tras that the o tt en et the M d as gunpo sde f ctory s to be reduced for the current to the one half in consequence of vi ci the severes of a number of labo ers half by new bid to be descented it. It must

b beens n n nd that may of the employer the gump of r factory, so many a let ease by sent a thom J gland or mon who come tuber the uncorrecanted errors rules. It call he did not be lyease with the sent a of the former and gentiant a stooming to longth of service we let have to be generated to the latter of the services we a not reproved. In the event of fill work be gragam common ad great iffently would doubtless be expo need notinuing the service of competentmen as the humaness of 10 der making is a special one a duot le, at a a short time

M J Gen V S II ch Insp G nl (h & Maw B mbu) I am of up a on that the proposed plan could not be carried out w theat an almost complete, one hee of efficiency

17 Are the reserves of powder and other munitions of wa as approved by Government or the report of the Ordnance Committee complete? Can any of the factories be much reduce I (for the time) in ordinary working power?

with the except on of g mo der for S B guns our rose es in B gul are competens for still east label popot one so the second as necessare concerned and the whole

nn be con blete u z e y sho ti ne f required It lev e my n the u ruman nis are samet oned these rese wes no little prob bly nereased to lat extent. Il dep ad on the net re of the ords once of the a mannerts may b composed

and le al rottlen

Project Is for tor filed or largoe of new sege times leady batteres and forte artination to accommend the file of the segment of the file of the segment of the file of the segment of the file of the segment of the se to meed all polable maned to req r ments and as a de manufacture of projecter to spore the expenting etc. It can all must be a read o er a larged twill tale o me tame to complet the e resofie el

The ever coftem is an una tou for Bengels every mean complete unilleleve in Bonn is in it of everes I Some y (sat a southware | riched also becomes Whe fit of severe S lot some a characteristic seven Or; to lore on a characteristic seven Or; to lore on a characteristic seven Or; to lore on the seven of the use spread a call on the seven of As I have before remarked, I cannot say postively whether any of the factories can be for the time, and immidrately reduced in ordinary worling power, because I do not know the actual state of the esseries in Bombry and Madars but judging from the reserves of guipponder in Bengal, I behave one gui powder feelory might be so induced, if not it once, it in only date

Colonel ^Q Charage RA Offg D₃ It of Goal of O &M Madrus

Proceedings of Committee referred to not jet received

Major General W S Hatch In specier General of Ordsance and Magazines Bombay

The small arm ammunitate reserves are complete. Those of ganpowder and ordnance carriges are not so

The establishment of the small u.m. ammunation factory has already been cut down so as to reduce the outturn this year to about half the quantity used annually. By this means the reserves will be reduced to the extent ordered in about three years, while the small-arm ammun tion factory will be kept in an efficient state

18 What is the annual cost of the ordnance department under the headings—

1 Administration

2 Personnel of arsenals and factories.

3 Stores { From England Local supplies.

Mayor General Nap er C mpbell Officent g Inspector Ge coal of Ordnance and Magazanes, Bengal

The annual cost of the ordnance department is as follows -

(1) Administration, Re 1,08,385 I have taken the actuals for the year 1877-78 as entered in the

Index mintary budget estimate for 1879 50

Americanically suggests source to 1.571 50'

and other lists heal It has endeded the pry of the supervising etal, effice tenk that elling and other times, confungent expenses, and postage charges

(2) Personal of season and factors, its 12,703 50'

I have meludad in the sum the pay of permuent establishments, as also that of exter loborers at the confunction of the confusion of the confunction of the confusion of

ficers, and others, family, medical, contingent, and travelling allowances, postage charges, and house rest.

These figures have also been taken from the actuals for 1877-78 as catened in the India military. budget estimate for 1879-80

(a) Stores from Lingdond, 12600,274

The cost of stores from Lingdond I have thick from the review of multiary stores expenditure for 1877 78 prepared by the Accountant-General, Military Department The cost of freight is meluded under this charge Cost of stores, local supplies, Rs 13 58,091
This sum represents the actuals for 1877 78, as given in the military budget estimate for

1879 86, and includes the cost of-1 —Local supplies of stoics for arsenals, magraines, depôts, and factories
II —Repair of harness and suddlery with corps

III -Preight charges of stores from England and from port to port

IV —Gymnasia stores and apparatus

V - Army signalling and telegraph stores.

VI -Miscellineous

VII —Camp equipage

VIII -Line genr

I am however very doubtful whether the figures given by me and obtained from the military budget grant really represent all retard charges, and in consequence of my ignorance of the states under which the cost of the several heads of expenditure in the department are calculated by the Accountant General, Military Department, I am unable to acconcile the figures in the military budget with those given in that officer's huancial icport

Major Newmatch could give more reliable information on that point than I can

Colonel S Cham or R.1 Offi e ating Deputy Inspector Ceneral of Ordnanco and Magazines Madras

(1) Administration smeatoned budget for current year Rs 60 955
(2) Personnel of average and factories smeatoned budget for current year Rs 3,66,746

(3) Stores from England average of 11st three years, Rs 8,01,902

Local supplies to use rals, dep6ts and factories, including timber actual expenditure during $1878\ 70\ Rs$ $1\ 94,607$

Major Ceneral W S Hatch specier General of Ordnan e and Magazzacs, Bonday

Administrations Sunctioned Budget 1879-80		Rs 66,508
Personnel		
Arscnals and depôts	**	3,83,808
Gun carringe factory		62,526
Gun powder factory		76,188
Small arm ammunition fretory		ã0 789

	(1185)	[Appendix IV
18 6 77 15 7 78 18 8 (9	Sia es rece red fo	on E gloud	Rs A P 15 30 488 8 0 12 22 571 2 0 6 38 7 2 1 8
		Average	11 30 610 B 8
8	tores proclases locali	jMusceila eo s	Rs A P
Arecnals and depôts	{ 18" "8 18" "8 18/8 79		3 54 777 0 0 0 89 897 13 0 5 20 192 5 8 16 267 6 0
G C Factory	{ 1876 77 1877 78 1878 79		31 150 11 0 28 480 14 3 41 006 8 0
G P Pactory	. { 18/6 77 1877 78 18/8 79		26 252 10 0 10 71 9 11 19 376 0 0
S A A Factory	$ \begin{cases} 1876 77 \\ 1877 78 \\ 1878 9 \end{cases} $		31 313 10 0 24 373 6 9
		Grand Total	1413959 8 7
		Average	471319 8 2
Arsenol and factories	P refere q 1876 77 1877 78 1878 79	f ta ber	Rs A V 79 547 12 0 27 480 18 0 81 868 4 9
		Total	1 88 831 18 9
		Average	62 963 15 3
1876 77 1877 78 1878 79	Purchase of e	an 9 ogi ipage Total Average	Rs A P 81 948 0 0 0 42 873 8 0 152 895 0 0 0 85 880 8 0
		Tronggo	00 040 40

10 Do you consider the system of "examination of ordnance accounts" a good one, and can you give any facts in support of your opinion for or against the present system?

Ma or General Naj er Campbell

I am not suffic ently fam I ar with the detail of the system under
Officiality I by extract a de
officiality and in the detail of the system under
Officiality and March 1 and 1 are with the detail of the system under
officiality and I are with the detail of the system under

a ill or ty on this point I do not that the take the result of these recounts a conducted in such a manner as to afford reliable

information a min or common to these recommens a consumer at mining it is for an internation and in some instances of least as fall as my imperfect understanding of the subject per mate of my judgeng the multi of itle seems to be regulated by no very fixed rules.

Intely two b lie passed by the examines of or insince a counts came ace dentally under my notice. They were I off a builted by regumental officers to the tyrms or of ordinance accounts. They were in both instances on account of the purchase of the same untele (canvas). In the one built the cost of the

canvas was put down at say amas pe 3a d in the other one rupes per yar! The electing of indents sal matted on the ordinance department has I suspect never been effic early careed on in the Bengel presidency. It is so in the Malris

The order of Government under which exami ers of ordernoe accounts a e no longer required to cheel such in leuts is a judic o is one. It ought to head to a reduction in the es ablishmen is of exam mers of ordurace accounts if made applicable to the other presidences which as far as I know it, has not been

The very excellent remarks made by the Special Ordinance Commission of 1874 75 in paragraphs 470, 171, and 47, of their report seem to me to point to the nece sity of the dity of the examinors of ordinance accounts being more especially confined to the preparation of statistical returns compile

from the accounts proper furnished from departments

The several returns which the Speem! Comm ties on Oriennees guided by the vera red space of the Speem! Oriennees Commissions of 151 175, here upposed for property team and subsequently commissions of orderinees and supermetandates of fretours will enable this to be done more effect ally than her hitches bear utilized at a present led not beliens we in now the not ever of the set turn of our fretours. The "theyed costs, is some instances, seem to vary so much, that one campy this section is not their security."

Coloud S Cham or it a Officialing Dop by Inspector Got crail of Ordnance and Magazines Madets I was d spunos that the present system is not a good use, and the examiners of embrane, recounts should be rathlet of these who has publicasionally guand a knowled, of the manments and other store with a basic that a legarithent is a specially constanted. I come in this suggestion made by Ochoud Wray, that "it might be worth considering wit their the othersic examiners in India officers of withlery, would no be lettle embrached under the different impectors general of ordering northern an writering via desching telurine and accounts as they rives through the department rather from its sentaments them intelled by the light is and when it is freeposity too late to rectify anything the may be wrong."

Major-General W S Hatch Inspector General of Ordenses and Magazines Bombur

Until last year there were many complaints regarding the reion k made by the ordinance examiner on charges for unlang up and repuing stores. These tempiles being considered in many cases as showing con-

plide generator of his subjection the purt of the subtrace commune, caused much among ance. I haven, some time up a reruged with the certified or influtry vectority for a primarary would for such dargers are regards quitaties of matural and I but no be much as the cardinates offer. This system has no been at word for some months, rud his at seems to may would asked, and the controller of mature constants an admentant has to determine the table asked asked asked the substitutions of the state of a summer I am of posterno that some such a rangement in Excessive phenoments the actual controller of matures around 1 and of the substitution of controller of matures are not of substitution of the substit

 $20\,$ Ls there any unnecessary expenditure in condemnation of stores by regiments and batteries? Please give your views on any improvements which may be effected in the interests of economy

Mayor General Napor Campl ell Official ng Inspector Gener 1 of Ordesince and Magazines Lengal. There is often unmover-try condemnation of stores by regiments and betternes and thereby considerable expense, which might be kessed is mourned not only as regards the value of the natures condemned but also on account of crurings

One case is at this moment under consideration, and I could furnish many others. But this or may possibly be sufficient as an illustration of the recities condemnation of stores by regunent and batteries, and the unnecessary expense which Gove nearch thereby menu:

One sepay tent of two pils was assued from the Teroscopore assurd to the 'th Regiment Nature Infantry On receipt it was brought before a station committee and condemned as a resource of for

the following reasons —

'The tent does not appear to be made with the proper cloths but with material of an infrant decomption. The committee compared the tent with an old one, and found the material quite

different."

The tent was then sent back to the Perozopore assemil, and on recount was again examined by a

station committee who reported as follows -

"The committee barring rapid open the test in question and examined the set set doller with the doth of the missed master test, are of openen that the given of which the image and not chike an embel as equal to the master test chick, and that the descents of which the o'er dollar maste is superent todde master? "" " "The committee consiste the test in every way serricular and fit for rease."

It is unnecessity for me to make my further comments on such in instance of condomination of stores

Officers commonsting briteries of utility we notable for the persistency with which they for quarity condenn harmess and sailing. I have been comprised on numerous occasions to appeal to His Evcollency the Communities in Chief on this point. The orders under which such off ore situation as as fully and elevity by 6 down that nothing can be added to tender them more explicit. The

carrying out of these orde 5 is now a matter of distribute

The only suggestions I can offer that are at all high to reduce the unnecessary condomination of

stores by reguments and batter is are-

L—In whiteher eliconitest licermes. As long as officers receive a certum ann for keeping my portion of their equipment in a serviceable condition for a fixed period as long will they to take to condimin these slowes on records from in areason on triving towards and on account of sight blemskers.

Appendix . (1187)

II —Stores usuad from in userial should be received by a regiment, but if considered of inferior using may be examined by a committee, who should state how long, in their opinion, the stores are III -By paragraph 123 of the Equipment Regulations prepared by the Special Commutee on Ordnance half yearly station boards are to be assembled on the 1st March and 1st September of each

year to examine and report on all multary stores and equipments in use with batteries or regiments

likely to last

which have become in the opinion of the commanding officers unfit for further service The assembly of hoards to condemn stores between the dates specified above should be restricted to as far as possible and only sometimed under the most argent and exceptional communications so as it is presented that amy surrounder amount one more argument and exceptions a recommendation.

It would seldom accuse that a damaged attack could not be sufficiently repeated to reader it fit for use till the date freed for the assembly of boards of survey or it could be temporarily replaced from

the sight stores in regimental charge

une si pios stores in regimental courge.

The condemnations by held yearly bounds under such a system as I propose would be large comprod with the condemnations by held yearly boards under present anangements, as the assembly of regimental committees throughout the year to report on one or two articles at a time would be done away with and all articles considered unfit for service during any six months would be brought before the half yearly station board

The proceedings of these boards of survey would be carefully scrutimzed in the office of the inspector general of orderance and any stores the necessity of condemning which appeared doubtful inspersion general a construct new may show the necessary or contenting which appeared could be ordered to be sent for inspection and report by an orderance office, or if the doubtful condemnation were extensive, in orderance officer might be directed to proceed to the station to examine and report on the condemnated articles

Col S Chart or N.A. Offg Dy Lusy Gord O & M., Madzas There is no unnecessary expenditure in such condemnation in this presidency

Major General W S Hatch Inspector General of Orderace and Magnantes Bombay

I do not think that as a rule, stores are unnecessarily tendemned by regiments but I am of opinion that some battery commanders are much melined to condomn stores especially harness (both an receipt and after being in use), for insufficient reasons. The orders used I in this presi dency in accordance with paragraphs 447 448 and 449 of the report of dency in accordance with pringrapus 417 420 ann 430 of the report of the Special Charmes Commission has checked the undue condemnation of stores to a considerable extent. I do not think that, my rules could be assent which would entirely story this tendency. The only course as to impress on the moude of officers and specially of commissionies that they are acting as umpires for Government and are bound to see that no stores are condemned unless thoroughly unserviceable

21 Are you acquainted with the procedure adopted in England in the survey of multary equipments of regiments embarking for, and returning from, India? What 18 your opinion of it, and can you suggest any system more economical to India?

Mayor General Nap or Campbell Official og Lispector General o Ordninge med Magazinis Benjal

In appendix of the regulations for the equipment of the army, 1876 will be found a detailed recount of the procedure adopted in England in the survey of m biary equipments of regiments embarking

for, or returning from India
I consider that system is a good and efficient one, and can suggest no improvement on it by which any further economy could be effected

Col S Cham or B. A. Offig De Inon Gent O & M. Madres

There is no record in this office of the procedure referred to

Mayor General W S Hatch Issa Genl. O & M Bombay

I am not acquainted with the procedure in this matter.

22. On field service in Afghanistan it was necessary for a general officer commanding a force to countersign indents on the ordnance departments, even for authorized stores is this not an unnecessary form, and is it not opposed to the spirit of the recommendations of the Ordnance Commission of 1874-75 as approved by Government?

Major General Napoer Campbell Offic about Inspector General of Codnance and Mo_camues, Bengal,

Yes, on field service in Afghanistan such was the pricisee It is a most unnecessary one, and is opposed to the letter and spirit of the recommendations of the Ordnance Commission of 1874 75, which were approved and directed to be carried out in 1877, but were not so-why I know not

As soon as I assumed charge of the ordnance department in Bragal, and learnt that Government had anothered the recommendations of the Ordnance Commission on this subject I at once initiated measures for currying them out. But to do this se juned the preprintion of corrected tables of equipment the submission of amended rules for regulating the submission of indents for the approval of His Excellency the Commandes in Chorf, and for the guidance of regimental and ordinance officers, and this took time, so that not until the 1st April was I able practically to carry out the new system under which indents ne now dealt with

General officers commanding would not now have to countersign indents on the Ordnance Department for authorized stores

ing Deputy It spector Gene al of Ordnauce and Magazines Mudrus

Colonel & Chauser B A Offic at I think the countersignature of the general officer is quite unnecessary to indents for authorized stores. They cannot be replaced if condemned as unserviceable until the proceedings of the committee

Major General W S Hatch In spector-Ge e al of Ordnames and Magazines Bombay I think that the procedure mentioned was both unnecessary and in opposition to the spirit of the recommendations of the Ordanice Com opposition to take spirit of the recommendations of the Ordanes commission. I think, however, it is probable that the contact taken was adopted in consequence of the non publication in Beng il of the rules recommended by the Special Ordanec Commission until 7th Much 1879. uide Bengal circular memorandum (new series) No 389 of that date

23 Will you be so good as to hand in any reports of the working of the ord. nance department on field service, at the same time stating your views in regard to any changes which may appear desirable?

Mayor General Naporr Camplell

With references to the worling of the ordnance department in the Officers ordnance and Majoranus Bengel field I found no difficulty except that caused by the precent of officers forming the permanent establishment of the ordnance department

Even the difficulty in obtaining transport and the inconvenience caused by the delay which occurred in recording sunction for the establishments of the field part's proposed by me, did not result in fulure on the part of the ordinance department to meet all demands made on it, always excepting cump equipage and entrenching tools

Camp equipage might have been provided and timely notice been given of the probable wants of the many in this direction. Entrenching tools were called for in numbers that no foresight could

have anticipated.

I append copy+ of the instructions issued by me very soon after I assumed office for the organization of field parks. They were our ned out most efficiently by the officers to whom they were sent

the out in more innovative from the second would never see that the cased by fiving to instruct officers new to department that it is not seen that the cased by fiving to instruct officers new to department that it is not seen to dear it is not seen to dear it is not seen to dear it is not seen to dear it is not seen to dear who made such encounteness could not be twoded but, on the whole the reguestal officers who services were temporally obtained for duty with the outwards experience were temporally obtained for duty with the outwards experience with the short proposabilities they uncorrect in assuming charts the detail of a which were new to them

An increase to the present establishment of officers to the ordnance department is essential to its efficiency, and some scheme to induce or compel the retirement of warrant officers, and so ensure

is contingly, and some same of mome of compact are rectifience on warring content, and so example in flow of promotion, which is now impeded to in custom most injunction to the service I uppend copy of a report; simulated by one of the semants of the promotion of the compact officer in the worling of the ordnance department on field service

The field parl "ttached to the Kutam Valley Lield Force was worled equally well by Captam Colomboun, and if the ordnarce stores which were transported for the use of the Kandahar I orce law not been so efficiently cared for as with the other forces in the field, the fault does not rest with the

ordnance department

O

Instructions usual by the Officiality Inspector General of Ordinance and Magazines to the Ordinance Officers in charge of the soveral ordinates field parks attached to the Afghan Field Loves, datal 2nd Forentics 1878

I ma areas that it is impossible to by down stated and definite orders for the guidance of an orderince officer in the field and thirt very much must be left to the judgment and forestable the inhibitional formation of the forms the following instructions for your general information and guidance is confuscing the dates of the ordinance department attached to the force

to submit emergent indents as early as possible to complete proportion according to the following

Accontrancesis -One complete set for fifty men for the respective arms of the services attached to the force

to use stree

Arms—Components for carrying out reputs to rifles, earlians, and pustols, are months' supply,
or for every 1,000 arms, half the quantities as had down in yourpraph 460, Endian Aypendix to
British Mais et ay, Regulations, and paragraph 460, Mais et by Regulations for Neura Toops (1)
Of components for which no proportion is had down 2 per 1,000 arms. Swords and scabbards for

Street and the street of the st artillery and cavalry, 2 per cent of number in use with the troops

On pear p c !- Material for the repair of all early equipped in use. Probable expenditure for six months-Tools entrendusy

5 per cent. of number in u e Axes pek Shovels Mamoot es Helves for above

Harney and saddlery
1 wheel and 2 lead per heavy battery Energent of { vheel number in | harness general service 1100 saddiery, umversali ha huntue Complete setspark N P boxes ammun.ton T) file esddles with harvess . eofrence wheel

Muter of for rose r — Set months' supply per bettery calculated on the annual proportions so land down in equipment table for no 1 if ones at they field leavy and mounts a better of laterated a not an Implies in complete and of age— for each of number in sec with troops 1504 or 1 for — Sufficient for the use of the we know at the ordinance department.

Modifices 4 - S x months' supply per battery and regument of all arti les are od annually for repair of eq pament. For the reserves of other storce you must excesse your own judgment int any into

connideration probable requirements but bearing in mind the difficulties attending the supply of ournage Ontroven sum 241 rounds per p ece Per royal horse artillery and field battery per 40 p R B L gan \$ 878 Per heavy field battery \$88 per 8° mortar 410 per mece Mountain haitery 200 Stege tra n Crealry British and Native 100 per carbane suppers and in ners 988 per mile *1 W I beds with bolts complete for box gurder

corringts Roses lead or ammun t or Shells common and double 7 pr 4 per cent n use. (brash a per B L gun Brushes for Freech leading guns copper vent piece I per B 11 gun 25 per cent of each article 12 use with bat-Draught equ pment ter es dependent

16 per east of a mber a use Hand sp kes of each article in use with but Implements faze and shall 10 terres dependent

Lany rds fretion tube } Detto Priming mens 2 per B L dependent Pieces vent B L guns 20 pe e at of number in un Ropes drug light and heavy 2 per royal horse artillery and field battery Shafts wood near and off

dependent 10 per cent of number n use and sufferent Staves for sponges and commers wool &e fo rewigging 6 sponges per bat-

tery and 3 coatings sponge for each heavy battery S x months's pply of materials for repair per battery dependent

3 The se or commissary of ordrance att ched to each column or drys on t king the field will a new section of the community to enterwhere the continue of a small man or territor of the general configuration of a find of the community from the configuration of the community from the community of the com

A He t if of sity is used that the most six road offput as at an time summering province with a degree sign only pourme to so most be measured asymmetric to trace and issue orders to rape as a table reserved to the measured province with the most and see orders to rape as a table reserved to the most of the measured province with a term possible of the road of the most of the course trace and a province of the most first of the most o

stores are are lable

O His orders regarding the desputch of stores must contain defaute instructions as regards quantity the different and the place at which required and if execut a known to be are lable. Thus

unformation as with iso be immethad to the essuage office.

He will detail the officers and establishment for each depôt leaving I owever at the bare of

operations the ordnance officer next sensor to h moelf

8 Tile ordnence officer at the base of operations in stexure se a very careful sin ervision over the seeme of stores as regar is quantity and quality and leep a strict which that his reserves do not full too to v submitting demands on the ordnance office as necessity at see to replemed his stock

9 He will rece to metr at one from the sensor orderines others from time to time regarding the quantities of stores to be purhed forward to the advanced depôts

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These orders he, and also all despatching officers in other depôts, must carry out strictly and punctually, so as not to interfere with the movements of troops forming the escort

n

Copy of a letter from Major P TitrG Gallaux, Community of Ordnance, late in charge of Ordnance Field Parl, Perhawar Falley Iveld Force

I have the honor to submit for your information my report on the operations of the ordnance field park, Peshawar Valley Field Force, of which I had charge during the lite campaign in

Afghanistan 1 Under instructions from the Deputy Adjutant-General, Royal Artillery in India Hett Umballa on the 10th December 1878, and arrived at Peslawar on the 18th, which I duly reported to you and to the general officers commanding 1st and 2nd divisions, Pechanar Valley Field Force, and asled for orders. Meanaine I had received your letter of instructions regarding the

establishment of the park, the formation of reserves, and various other matters connected with its The second secon as accuse, a concernor my comparator area recommendation time see A smooth above the violes of the openion different specifies may taking his orders in person. Meanwhile I proceeded to Journal all reported myself—to Leutemant-General Missols, o.s., v.e., Communiting the Sad Directon, and terrain from him thick, who between had only put remarked this frontiart, and these seconds no immediate probability of their being pushed form via to any great distance, the question of their receivers engels, for the present, stand over, a videy could, for a commissable time, dipseld

on the Peshawar arsenal for supplies During this interval, the establishment of the field park began to arrive, and I at once commenced detailing then duties and, as far as my information at the time went, their distribution

with a view to future organization

with a year to train enginemators

3. On the 18th December I received telegraphic orders to report myself at Dhala. I left
all necessary metrocloses with Loedenant Duff, xa, who was appointed to the force at my
assistant, viol. Elected him to promote 50 Januari and form, as soon as possible, the loss delices
of the field park, where all stores would be taken over from the uremail and transmitted to the
depths in ricont. It has as does teachible the field part office as soon as the survival of the pressure.

4 On the 20th December I started for the head quarters 1st days on, taking with me the senter worant officer attached to the parts. On arraval at each staten along the line of communica-tion. I curfully evamaned the equalshities of the places for forming depôts & , and soon learnt how necessary the immediate formation of the field part, on a definite system was. Thus was apparent from the haphrand way in which ordinance stores were then being forwarded at Jamend, where there was a considerable amount of ammunation. There was no system whatever, and all seemed in confusion On my arrival at Dhake I found that the head quarters list division had advanced, so having devoted a day to examining the accommodation likely to be afforded by the fort, and having seen the wietched You're electromage one accommodations are you're include to you could be used to the country and the titust my let a 3 pet on of the britting reserves of the drivens were stored, in change of a expensive architect, insule locate billiabola, which I would not all the With Describer.

5. I lost no time in a various peen lacetoment-Greenel St. Syn. Browne, k ost on, yo, and

taking his orders. It was determined that the reserves for the list division were to be at Dhaka, account of the first to figure with the process of any relating the state of the necessity account of the necessity account of the necessity account of the first the first fi

was good enough to order this

6 The question for reserves of this division took some little time to arrange a desire to alter the proportions of the projectiles laid down for the 9 pr brittenes in deference to the I desire that we propressed at the proposed and upon for the open statement where the water than the washes of the internant-general commending. I was discised to forme my indents in recordance with this, and subsequently did so, but, as in duty bound, I brought the natter to your notice at the time 7. I left Jellahabd on the End Tanany 1879 with a clear view of what was required from the Tallahabd on the End Tanany 1879 with a clear view of what was required from the

field puth, and for the purpose of establishing my depicts and sending in the necessary indents. From which I had seen on the match up I became consumed that a regular elapsus system was required for the safe transmission of stores to reguments and depicts. I had necessary instructed the officer in charge of the base depôt at Jumrud to distribute the establishment as they arrived, so that a warrunt or non commissioned others, with a sufficient Nutive establishment, should be at each station along the Ime This I was glad to find partially carried out on my return, but the whole of the Natives had not yet come up so that the system was not quite in working order till some days after

I made all arrangements at Dhaka for the necessary improvements to the field park buildings

It made all strongements et Delak for the necessary improvements to the field pair, hordings there, and taged the necessary of their manderhie complexited by set to work at the indexts for the I ret med to Jenuard on the 9th January and immediated by set to work at the indexts for the normation, and stores necessary for completing the nearest of the it dramon. They were sent to then recent about the medical of the mostle, and I angeled in a book a reached, but the S. I found that the ammentation would probabilly be all supplied in about a reached, but many other stores were difficult to obtain, as there were cheesly large inclination for regulation and halteries. But it seemed to be a stored to the sent that the necessary control to twent that the necessary for the reached and the sent of the sent that the accompanion for responsible stores.

many other words were cancers to operan, as more were streamy targe referens one to regularize on-buttages. But a seported to year at the time, I found that the accommodition for prisable stores was so small, and really existed at only one piece, or , the fort at Dhake, that I advised that comps should to once be directed to indent for a na months supply, which could be forwarded to their direct through the field park thus obviating the necessity of having depots of these stores at places where there was no proper protection for them. This suggestion was carried out in both divisions, and I believe I may say that when the general advance took place, towards the end of March, there were very few indents of any importance uncomplied with

9 I row my return to Januard to the 24th of that month I was solely occupied in completing the organization of the park. All establishments having arrived, as well as a proper supply of

[Appendix (1191)

st. toners everyling are nelli old gorder stores were trunsh thed egibly nel without less (est na ers fe crees) to the different st tions along the line. The depot at Dinka was reported comple e a lire dy to rece ts mm et ou

10 On the 21th I nur, the levi quarters 2nd dies on morel from I am rid to the Bezri valler and I compile that ge erd one from the cyclic on afforded me the means of seeing for n self be the amount and use es world on actual se use and what was likely to be r qui d'of n self to the same name see as not some estates the same with the fact point of the fall print and the right age seals for a not of the fall plot mile. That mode with General Via data of mile this plant mode with a seal of the fall work of the fall work of the fall work of the fall work of the same in the fall work of the same in the fall work of the fall work denot to awa t he rm si of H s Excellency tle Comm nder n Cl of

Il I found everyth ag n ex ellent or le at Di sha and my asia act one correct out. The build age I ad Leon much impro ed and most of the reserves were camplete

Il s Droilènes, respected the field pr l. lepôt til e on the 27th Pehr say and was pleased to extre sto me l s at stretch to til e state it was l recompand it the Commander n Cl ef to de hald l mappet g my dayfor at l ver the n. I are the g n \ that on of my furth advance of the force and no spo of may recommendation for sto es at Jellathad being began \ t \ \ \tau \ \ \tau \ \text{s} = \text{The design of the commandation for sto es at Jellathad being began \ \ t \ \ \tau \ \text{s} = \text{denit} that the ese was of the lat division would remain at Dhala

12 Helentenant gene al commanding hi mg p occeded to Pesinna I vs navo stobe present at Disks on his return so first le might see the state of the depot and give me my far ther astructions liss need limiter en the the Commande in C of might combie him to do

Incoordingly retend to Dhala on to the Marc and mot Le tenant (see al Sr ann Bro co there on the lit Mc desired that I shold remain all the rescess and I s formed that an al mose of the toops was collect and that ast notions would be sout to me egurd ag the feld p sh of the d vis on

18 Ire a and at DII recording to orders assert of proceeding to the lord quarters of the last descended from the $^{\circ\circ}$ dof Ap I when I was summered to Irali Kotal by Leutra at Gracel Ma e c c a to group for the reserves of led son. In the meast linguage has a new former and ansert ansert and ansert ansert and ansert and ansert and ansert and ansert and ansert ansert and ansert and ansert and ansert ansert and ansert ansert and ansert ansert and ansert and ansert and ansert and ansert and ansert ansert and ansert ansert and ansert ansert and ansert and ansert ansert and ansert ansert and ansert ansert and ansert ansert and ansert and ansert and ansert ansert and ansert and ansert ansert and ansert ansert and ansert and ansert and ansert ansert and ansert and ansert and ansert and ansert ansert and ansert ansert and ansert ansert and ansert ansert and ansert ansert and ansert and ansert ansert and ansert ansert and ansert and ansert ansert and ansert and ansert ansert and ansert ansert and ansert ansert ansert and ansert and ansert ansert and ansert ansert and ansert ansert and ansert ansert ansert and ansert ansert ansert ansert and ansert ansert ansert and ansert ansert ansert and ansert ansert and ansert anse Mn c c c b by fragge to the read was at 1 s d s sul 11 me man at 1 years An and me be that there place n all low of up the b d qu'ant of the scall is he or tonde L s tonte D if f on lan 1 to the head q to s of the 2nd date so at Land Kothi 1 is then 1 seams the cee great for life states from 1 s l r 1 m and and Ah May d be g m ly them a tung stations 4 this per of the rease vec of the 1 s b s on our ce complete and a lag eq antity of animanthem was thirms of non-the fall part of q to the D was thirms of the shall and 1 its sub of a lag of the 1 s and 1 its sub of the 1 s and 1 its sub of the 1 s and 1 its sub of the 1 its sub o was throw for the load part of 100 t Data and 100 which on the leadants I has do not be all all and an an an are not of one any of withhy of the of an stein have made of the original part of the large made of the original part of the large made of the original part of the large made of the large mad nfinity the 2 d h e ann ton to to 9 pounders and the gating went of the vere handed over to reg mental charge so that all genere se to the depot at Jellylibri took place

M This been one; the most cold by the general officer community get denotes or of the reserves for two lesses at if y and two mountain late, or IT a take me, and file for ever recomplete when it is general of an extend place it is rather due led that one he en they and one mo mum battery one to be transferred to the Sold wasne. I want us n processor of 14T of our they recover unumn to fit he hatter dwe can be to for the movement contains. the remander was ordered from Pestawar to Lau da Kotal for the other two bitter es

Is In the sale, but of May the countions of the proof of stollar of the list I son had an exact to Sudo Bang the of a damath) had in go the list of comm in a closs form Malb b d to defer from If it care or an unit usual sud-velo some rate above paragrage on 16d age so so under to Sudo Bang who we the bulk of the d son was son naturated. The come due of the c.t. mann is the last on a state of them DA as a list in obtained even part I listed i librabilistics. of the reserve needed og stores was at the former st ton I we informed that vin a recommon dation was endy at Jellahib deall the ammunition of the disson would be removed there from Dhaka other stores remaining behind.

The troops of the 2rll son oes pedilolne Jamrod to Burkub A considually port on of ts art Bery eser es had alre, dy been ato ed at Di al a the rema der as nel as the smill arm resc es and other stores were on the r vay from Pesha a d old lave been comple e by the middle of May b tho the fett, at non secrable poten of teer mage of the dvson had been sent to the front to rugm at the tof the lated is on wheles much a need of transport. This can el a delay with a l'Irrought to not ce. Haj pily subsequent ever is rende ed this lela; rather an advantage as the reserves were not required.

I received collection tile Let. May be per the let division and first communicating muthists head quarter I felt Led Keel Fox Sicel Sung on the Attheory agither on the 6th On the Sight is clone and nony condered to story upon the Letter stores from the received out Soon after and not considered and the notice that the control of the study curred out. Soon after and not considered the middle that the story of the study

Anthe pring to delay and differ lines thely to are in gotting back the larges q intines of name a tion and stores in ordnance charge buch were scattered if along the line I at once telegra; led to the base station to have as many of the stone as pec ble clea ed out of Di aka before the netual retreat of the troops commenced so that some room in ght he made for what as in front

I also directed every depth to get as much carrage as possible and olars out, as far a prestering the first the action becomes of the troops foot between of it one block should cover. By things early assert the contract the member of their service of the contract them are able to their service of the contract them are the lattice place as safety, before the troops of the let of thousand and often on the root Lenstennan D off had also managed to bring up a considerable amount of stores to Limit, Sacht, sea that by the fields are the chair park was stored between the times statemes of Dirly, Limit, Kotal, and Januard, I recommend the thing of the chair park was stored between the times statemes of Dirly, Limit, Kotal, and Januard, I recompand to the chair park was stored between the times statemes of Dirly, Limit, Kotal, and Januard, I recompand the corner of the chair park which sky I was greatly as known to the whole of the menuning, annual time, herving behand only other stores to a small unessel, T committee the corner of an extra the statement of an extra the chair park was the corner of the chair the corner of the corner of the corner of the chair the corner of the corner of the chair the corner of the chair the corner of the chair the corner of the chair the chair the corner of the chair th

- I was very unfortunitely and reluctuatly compelled to repert, myself sed, on the first Jung, and with the exception of giving robal directions, the winding up of the field park from that date do one of upon Lessternit Duff.
- 18 I have thus traced the history of the field park from the forestion to the time when it labors may have said to have ceased. I would now key to offer some remarks on its actual used as once points which have suggested themselves to me during the experience which I have guisd in this comprise.

Having distributed the estable densert we l'inve admant perplanted and organized une fiftie, my my angle mixate van is complete the amount on receiver and such columns of stores a vocar bill off to be required it may moment be artillery stores connected with the actual varieties of the general contract of the contract of the parts of the present and scaledbre, a trincat tools, the would have been connected with the set that varieties of the theorem is addlere, a trincat tools, the would have been connected the related to the set of forming a present yet entere of them would be obstruct, even yf it could be recently as the contract out to second the set of forming a present yet entere of them would be obstruct, as not yet of the second cost. However the disclosely of storage for presentable articles was very great, and l'effects should be made to get existing moderns fair so completed with "The field pair, I can confidently seed of d conclude terror, in a transmitting these stores which to regiments. An extension mount of camp captinges entereding tools, and materials for repurs were to warded by the pair, and, or a blood so fit of the lines of the time when a form and movement the observed to the situation of the second of the s

He weld has even, not be propor for me to pure over some of the difficulties with which does also also consider that the extract of the part of the part ownings. If the first place, I do not consider that the extract of the clier in charge of the part, or the values of the date he had be performed as the part of the clier in the clier in charge of the part, or the values of the Ge of the part of the part of the clier in the client of the part of the part of the part of the clier of the part of

I Annendix 1v

This idea was honever, apparently adopted for a time in the 1st division and gave me much trouble as you are already aware

The next difficulty was with the proper submission of indents, but after a time this was overcome I think the orders on the subject are sufficiently clear, and should cause no meconvenience, especially as they have lately been amended

I found that, probably owing to there being no field park with the force at the commencement of the campugn, many regiments and battiries continued to indent direct on the Peshawar arsenal for stores and ammunition after the park was duly organized. I called the attention of the divisional authorities to this pointing out that it left me in the dark as to the wants of the troops and was also confusing in the matter of invoices and receipts, heardes causing unnecessary delay I regret, to say that up to a late period this proctice continued in some corps and I think that in any future campaign street orders should be assed to prevent it

The difficulties of carriage I need hardly call attention to as they were not confined to the field Happily the force did not advance vary repedly, so that the inconveniences arising from this

scurce were reduced to a minimum There is one other subject I would carnestly draw attention to und that is the enormous amount of office work thrown upon an ordnance field park on service by the system of suditing accounts, of other nort interem upon an ordinance heat park on service by the system of valuating absolute, which is carried on in time of war exactly as in a profound perce. It is not easy to convey to any one who has not studily seen the work the great difficulties of carrying on the duties of an office in a tent often during a fierce deat storm and with few of the adjuncts which such daties require. The whole time of one warrant officer and two Babus and a considerable portion of the time of one officer was falsen up in accounts and correspondence. I would venture to suggest that if the elaborate system of cheeling must go on, it would be advisable to let the arsenal of supply adjust all accounts with the examiner, and that the field park should only be called upon to give vouchers to the arsenal without keeping up a system of recounts.

19 A more pleasing part now remuns for me and that is to bring to your notice the names of those under my charge who by their assistance and by the manner in which they performed their dities contributed to the general good results I have described in my report. To Lacutenant Beauchamp d thes contributed to the genucal good results I have described in my spect. To Locateman Brunchman Dari a whom a my sensitiant from the begranning I cannect give other than the most unqualised preuse. Ile had charge of the bras depit and office almost the whole punced of the cannagan, and detected the sense. It is used to detacted by me on some consons to trust depits along the lane, and his correct was always apparent. I treat that should a unampy occur on the department has an an account of the more present that the contributed of the interest of the state of the should a unampy occur of the department in the commonwhealth of the presentation of the state o He had much hard work and exposure

Sergeant J Bennett has fully borne out the high character with which he joined the park There is no min who was under my charge who performed his duties more faithfully. He is steady, sober and most intelligent. From being in charge of the depot at Bisawal, one of the hottest and latterly the most unhealthy stations on the line he suffered much from enjourne and also hard work.

Still is not en complained. So auxious was I to recognize his behaviour, that I recommended him to you for the charge of the new ordnance depot at Lunds Kotal

Sub-Conductors Piel aring and Mantz also deserve mention as having worked well. The lutter was employed the whole tune as head clerk at the base station, and Lacutenant Duff speaks well of him

Of the Native establishment I cannot speck too highly. They worked admirably, gave no trouble, and had often a very band time of it. Being chieft, composed of Natives of Lower Beingal, the extreme celd of the winter months was very trying to them but I am girl to have to report that during the campaign only two of the number died,—one lascen at Jelialabad of small pox, and one artificer at Peshawar on his return from the front, of cholera

I would des re to bring to notice Sirdars Shall Hugan and Salub Alt The artificers were most useful of these who can be defined that the campain and an intermines were most useful of these who be much the field part towards the close of the campaign, I would beg to mention I leakesant Limste n n . He was o ly under my orders from the 26th May to the 21st June but during that time he mail binness! useful, and was any caurgetic

doned, that time on he is minimized section, may we way consigned.

I regret has up all of bring to your noises the conduct of two of the varient officers attrobed to the jink. I was maken at first to give them a further time, but I have some formed an opinion that it was matchen landness on my part, and that they descried no consideration. They were the only exceptions to the general good conduct of the whole establishment from first to last

In conclus in I have only to hope that my efforts to perform my duties will have met with your approval and that the assistuce I received from all those I have favorably mentioned will obtain for them the expression of your satisfaction

I much regret having been compilled to relinquish the charge which you were good enough to offer me at Peshawar, as also that I was mable to finally settle the accounts of the field park

Col S. Chromet R 4 Offg I sp God of O & M Madra

No reports of this kind have been recently received in this office

Major Ge ceal W S Hatch In Speciar Ge ceal of Orleanse and Magazan s Bo bay

I cannot find any reports of the net are asked for I have recently directed my attention to the introduction, as far as possible, of piecework in the arsenals and factories of this presidency and I think that a great saving will be caused thereby

Τ,

HORSES

 Do you consider it necessary to maintain any reserve of Government horses. and if so, how many 9

L entenant General S rS Browns ECH Command of Lakore Day

I consider it necessary to maintain a reserve. For the number of British cavily regiments and batteries of utillers now in Bengal I am of opinion 1,000 horses should be kept up

Brighdier-General C G Arbuth not, CB Inspector General of Royal Artillery for Ltd 1

I consider it necessary to maintain a reserve of Government horsesabout 1.160-for active service, in addition to the ordinary reserve at present maintrined

Lectennat-Calo el H C Sm th Supe atendent Reserve Remount Depôt Saharunpur

I do consider it to be absolutely necessary, as well for the safety of the country and the proper mounting of the army, that Government should maintain a reserve of horses The number I would recommend being kept up would be 1,000 head all told And of this number 200 might well be young country haed horses of between two and four years

Colonel J D Couper D rector of Army Remount Or erateons

As long as India is dependent on foreign sources for remounts at will be, in my opinion, necessary to muntium a reserve of Government horses for a supply on an emergency such as a war, can be obtained in no other way. The number should not be less than 1,000

Colenel A Drury Agent for Ro

The max mum reserve municiped at the remount depot, Occor for all the mounted branches of the service in the Madras presidency is limited to 150 horses

Considering this is the only reserve for the whole of the Madras urm; I do not consider it would be idvisible to reduce the miximum The reserve only comprises fresh horses. No horses are taken back to the deput after they have been allotted to the service

Major W A Roberts BA Ro mount Agent, Colcutto

Yes The number of such reserve I consider should be arranged annually, and should be equal to two-thirds of the number of horses say ing in corps and batteries which, on the 31st December of each year, me 14 years of age or over

Major & Capel Officiats g Sen or Assistant Sajors steedent Army Remount Deptit Saharu sjore

Yes I think that one year's requirements should always be kept

My reasons for thinking so me that if a sudden call was made for remounts, e ther in the event of a wu, or from any unforeseen contingency mixing from my cruse, such, for mixinee, as the Lookinst contingency mixing from my cruse, such, for mixinee, as the Lookinst disease, which broke out to Harvi Pindi last yet and then nextly unbosed a brittery, to supply whose varies of remember are even one both from this depict done,

the Government would find it imposs ble to meet the demand, unless from a reserve

Under the present encumstances, the open market of the North Western Provinces and the Panjub could not supply a demand made upon it with injuling more than a few horses suited for European cavalry, and next to none suited for the artillery, both horse and field, would be preenrable

To prove this I give the number of four year old remounts, country-bred, purchased by the remount agent of the North-West for the last three years and a half —

					-	penotes t.
1876-77	***					19
1877 78	***	***	***	111		22
1878 79	***			 		28
1879 80				***		15

That officer has repeatedly told me that he has attended every large horse fair of the North-Western Provinces and the Punjab and though he has purchased every available four year old horse according to his judgment fit and suitable for aimy purposes, he has never been able to exceed the small number noted by me above

Taking mits consideration, us one must do, then the remount agent can give higher prices than any one clee, and that thus he has variantly the command of the martle, it only proves how very free four year of doorse satisfied for many purposes are arrichable every nor in those g at promess. I submit therefore that I support my opinion about the advisability of Leging up a reserve,

from these two facts

That Indra itself cannot provide us with a supply of remounts, at least not at present, and so in consequence we shall have to look to the colonies, certainly for some time to come, for early remounts, and perhaps they are for the class of house sucted for the relately branch of the service.

A supply of horses obtuned from a great dislance cannot always be depended upon, and so the neessity of a reserve appears to me on tones.

I am of opinion that 1,000 remounts kept at a reserve depth would be sufficient to meet all

requirements

P P Cell as Esq Prancipal Veterioury Surgeon Hengal Army I consider a reserve of Government horses necessary there being no local resources available in case of emergency, either for British carrily for for articlery and the number numinance as a reserve should amount to the requirements of the serves for one year, which number will be found when through the number larger casualizes and esskings for mind.

to the requirements of the service for one, which making the annual veringe casuallass and caskings for many years back to amount to 10 per cent. of the effective strength. The number required for the reserve will therefore be as follows—

Six British cavelry regiments— Strength in each 436	Total 2 616	Reserve. 261
Eleven latteries, royal horse artillery— Strength in each 1/8	1,958	195
Twenty two batteries field artillery- Strongth in each 110	2 420	242
Total	6,994	698

J H B Hollen Faq General Super stendout of Horse Breeding Operations

Yes I consider it is necessary to maintain a reserve equal to one year's requirements of remounts for British artillery and cavalry say 859 horses, calculated thus—

The total st ength of horses are believed to be as follows Royal house artillery Royal field: Heavy lottery of royal artillery British carvily Body guard	_	1 958 2,420 5 2 780 120
	Total	7,238
Calculated at 10 per cent on above Mangenter selection for officers chargers, casting, cast	alties and em	723 ergencies 157
	Total	880

But perhaps it would be advisable to have, in round numbers, a reserve of 1,000 horses, as at present sunctioned by the Government of Indv.

G Evans Esq Inspecting Vetemany Surgest 2nd C role

Yes but I have no data by which to form an opinion as to the number

W Lamb Esq Inspecting Vete rayury Surgeon Bombay Atmy I consider a reserve of horses very necessary because remounts can generally be purchased in the Bonday market only during four or ax mealism seed year and even then the supply a gat to be uncertain. We have no other reliable market in this presidency to resort to, and as yeard on the notices any appreciable number of country breds suitable for attilizery or British evenity.

With the present established strength and without a reserve it is impossible to send a battery on service without drawing such a number of horses from one or more other batteries as to reader it or them medicated. This was very apparent when proparing the two betteries for Maita and the two for Afghanistia last year. I think the reserve of horses for this army should be 200

I G Shaw Esq Staff Veter pary Surgeon Madms Army A reserve I consider necessary in the event of emergent requirement, for service either of this rimy or to assist the armse of Bengul and Bombry On three occasions within the last twenty years requirements were made from the army for remounts for Bengul and Bombry A reserve of 100 honess would probably be enough.

J V G Adams Esq Veter mary Surgeon Remount Depôt, Corror

I consider that a reserve of Government losses is necessary to one are regiments and batteries being Lopt up to their strength in case of unusual mortality or to meet my emergent requirement in case of win The reserve at this dopok has intherto leen hunted to 1-00 losses

The reserve at this depot has interfet feel function to 1-61 cases this number is a been found to qualit to the requirements of this presidency.

One handred and fifty is under a percentage of a on the total strength of horses and this, I think may be taken as the proportion in calculating the strength of the reserve.

2 Please state the grounds on which your numbers for the reserve are calculated

Lornienant-General Sir S Bronne K.C.s Communicating Lebere Ds. 1 ca.

To meet eastings at 9 per cent about 700 lorses are required yearly but I think experience has shown that the first been addit on I spearl eastings yearly, in addition to which essentials have to be provided for

Brig d er Gineral C G Arbuthnot CB Inspector fleueral of Royal Artiflery for Ind a The grounds of my calculation are that there should be a reserve sufficient to complete for active serves 0.0 But in carelly and lones and field artillary of a force of at heast 30 000 of all arms replacing all lorses which from 190 or other causes are unlift for service at the field and also sufficient for most the casualt es hidly to occur during the first year's campaign

The number of regiments and butteries for which this reserve should, in my opinion, be muntained is-

3 Regiments of British cavalry 5 Batteries, horse a tillery

Batteries, held utility 10 For the butteries of horse and field utility the numbers required to complete present establishments for service in the field are 22 and 20 per battery respectively. I am, however, of opinion that these numbers might be reduced without loss of efficiency, and that in calculat on for the reserve 12 may be allowed for a buttery of horse artillery instead of 22, and 14 instead of 20 for a field battery. making the active service establishment of the former 190 and of the latter 124

To replace horses fit for admany worl in cuntonments, but from age and other causes, until for service in the field at least 10 per cent are, in my opinion, required for both arms, and to replace

easurables during first year's company about 15 per cent

The active service reserve, therefore, which I propose is as follows —

	3 regiments of Batish cavality	5 butteries he se artillery	10 batteries field aif Hery	Total
To replace horses unfit for notive science, 10 per cent	13%	90	110	332
To complete to active service establishment		60	110	200
To replace casualties during first year's campaign, 15 per cent	198	143	186	527
Total	830	293	436	1,019

This reserve, as I have already stated, I propose to be in addition to the reserves at present man

tained at Saharunpur, Hapur and Oosoor to meet the ordinary ann al requirements

If it is not feasible to have this reserve lept by private individuals—and I do not leheve it is feasible—it opposes to me merpedient that a certain percentage of horses known to be unfit for estre service should be refa and in regiments and lasticises with a similar number standing sillor in the reserve ready to replace them II, therefore, the reserve ir is to be maintained at the expense of service secure to replace them II, therefore, the reserve has to be maintained at the expense of Government I would recommend that, in the regiments and batteries for which it is maintained, the presentage of extraing be so more-seed that all loces multifa caretive service may be got under that all loces multifa caretive service may be got under The necessarty of leaping duplicates for whout 10 per cent of the lorses of these regiments and

batteries will then cease, and the reserve I have proposed will be reduced by 332

Loudervoi-China H C Sin u pero tendent, Reserve Remount Deptt, Sabarusper

The synctroned number of remounts to be supplied annually to the army is 9 per cent, which amounts approximately to about 600 heid in all But as in practice it has been found that even this estimate is somewhat in excess of requirements, it follows that the number fixed upon above, though much under what is now being maintained, would be ample for all purposes

Colonel T D Conper D rector of Army Remount Operations

The grounds on which I calculate the number for the reserve we

There are belonging to the mounted branches of the army-

	Number of herses peace strength	Custings and cascultures 21 per cent	Aumbin of Jorses required to complete to war streegd	Total
6 British cavelry regiments, 436 horses, each 11 horse artillery batteries, 178 22 field artillery batteries, 110 ",	2,616 1 958 2,420	549 411 508	242 440	3 165 2 611 3,568
Total .	6,994	1,468	682	9,114
		2,1	50	

In calculating the custings and casualties at 21 per cent. I am guided as follows

Name per cent is the rate laid down for enslays in time of perce, and 3 per cent for cranalities, but this is to render the regiments and brittenes efficient for perce work, and I feel sure that, to make them efficient for hard campaigning work, a further casting of it least 9 per cent would be neces

If I am right in these calculations-and I believe I am-it is apparent that to make the whole arm; efficient for war it would be necessary, before a shot was fired, to supply 2,100 horses fit for immediate and hard work In the Afgèrea company, three Bottah represents of cavelry, are habients of horse writings and set between of field artillary were employed or were in reserve at a usuaged, and is polying the critical part of the monestip kness carbonided between of the reserve, or it hatfarty must fine the remainst sent to the artillary were first houses haded this year. Diese were sent to othe fasteres, and they supplied several horse stricted to the latteres of the first, but it large sunforcements had been necessary, the number of undifficult of the latteres of the first, but it large sunforcements had been necessary, the number of undifficult of the latteres of the first, but it large sunforcements had been necessary, the number of undifficult of the latteres where the first provided when the contract of the sunforcements are not to be a supplied to the sunforcement of the sunforcements and the sunforcement of the sunforcements are not the sunforcements and the sunforcements are not the sunforcements and the sunforcements are not the sunforcements and the sunforcements are not the sunforcements and the sunforcements are not the sunforcements and the sunforcements are not the sunforcements and the sunforcements are not the sunforcements and the sunforcements are not the sunforcements and the sunforcements are not the sunforcements are not the sunforcements and the sunforcements are not the sunforcements and the sunforcements are not the sunforcements are not to be a sunforcement and the sunforcements are not to be a sunforcement and the sunforcements are not to be a sunforcement and the sunforcements are not to be a sunforcement and the sunforcements are not to be a sunforcement and the sunforcements are not to be a sunforcement and the sunforcements are not to be a sunforcement and the sunforcement are not to be a sunforcement and the sunforcement are not to be a sunforcement and the sunforcement and the sunforcement are not to be a sunforcement and the sunforcement are not to be a sunforcement and the sunforcement are not

num irror proves ver meavement.
The are to the fudure is now ordered will in first be only 750 horses, for the Government have directed that 1.09 num; stock between the signs of 24 and 35 are to be purchased annually and irruch in the reserve dopties, with the sidn of the number of named a kept, including these young stock, are to see that of the number of named a kept, including these young stock, as not to exceed 1.000. The purchase each pain of 150 young stock, at these gas will make 2.00 annucle surface age for the severce that will have to be level at the depot, which will in the thouse a restore and aroung depth, with 150 dilucent horses in the secure and 250 unefficient horses, on

account of heing under age in the rearing department

Colorel A Denry Agent for Romounts Occor It is very describle that, in case of an epidemic or of any sudden dearned for field serves some house be kept in reductes to need such demand. Moseour, there are always a running or bleases which are suffit to go to the service the first year, which form a large term of the

A reserve a also necessary because the coloural horses are only purchased from November to Myrch, and the Peneru and Condahari deelers bring their horses only during the anno period, and it would be impossible to purchase any number of horses at any other time if required

Mayer W A Reberts BA Remount Agent Calcutta Recember horses of that age are as a rule the first to knock up and cuesto necessity for remounts when send on a campaga of put to my herry work. House cast annually for other cuses than age should be replaced in addition to the reserve

Major A Capdi Officenting Sa n or As s., i ~ pensir lent Army Resonant Dep 4, Substrauj ut My reason for saying that 1,000 horses kept in reserve would be sufficient is grounded on the frest that the issues of remounts to corps and batteries from the two deposits combined has regard from 600 to 500 that lets few years. If this is correct, as I believe thes, a reserve of 1,000 horses would need all calls, leaving in ample behaves for unforesion contingenance.

T F Coll as L. q Print pall Voter : in Secretar, Resput Army This question is answered in No. 1

J R B Hullen Req General Super site dend of Her e Broading Operations The numbers of the reserve are calculated at 10 per cent required annually on recount of creatures meleculary. This conclusion was arrived at by also because the communications, based on a calculation of caseables and deaths occurring among army horses during a period of many years.

G Perus, Duj Inspecting Vo ter cosy butges, Lot, Curds.

See answer to question 1

W I un b Eag Inspecting Vetermary Sirgeon Bombay Arasy. Two bundted is about the average yearly requirement of iemounts for this surry, and I do not think it good to keep a larger number in reserve is, unless the depot is cleared out annually some horses may be remain up there for yours, and so become commonsty expensive

P G Show Frey Staff Veter-1917; Surgeon Madres Army A reserve of 150 houses was fixed by this Government about the years 1568 70, but practically this number has never been reached. On more than one occasion requisitions from Bengril could not be complied with

I V G Alime Viq Veterinar Sungtan Remount Drydt, Ocean As stated above, 150 or under 5 per cent on the total strength of horses has intherto been found sufficient for this presidency

 $3\,$ Should this reserve be attached to corps and batteries, or to one or more depots?

Let terent General Ses. Become res Command ng Labore D : Should be retained in depôts

Brasiler General C G Art it at a na Irrepector Seneral of I oyal Artificey for Inda. The number I propose to be mandaused to complete britteres to the complete and the complete properties of the complete properties and the complete properties and the complete properties and the face for which the overer is mentalized. The presenting of the face for which the reserve is mentalized. The presenting of the face for which the reserve is mentalized and not recommend to 1 attends to corpt and batteres but to the resound applies are excess of the masket wantshound is three days for more other requirements. They should, knowner, he included with other immensis in the rangel stage.

L'entemant Colonel H C Sm th, Supers tendent Reserve Remount Depôt Saharunpur

This reserve should certainly not be attached to corps or batteries which have no means for restoring young horses to health after long confinement and bad feeding on shipboard. What is essent al for the newly landed water is a run at grass and an alternative diet, and they should be kept first in a depôt where there would be pusture lands and

the means of rusing green fodder crops

If the reserve is kept down to 1 000 head, there would be no need for more than one depth It would, in fact, be preferrible, in such a case, for the whole of the reserve to be accommodated in one rather

than in two depôts

Colonel J D Co per Director of Army Remount Operations

I have combined these questions because many of the arguments eorps and batteres, upply viso to the point whether rememts should be attached to corps and batteres, and also to whether the reserve losses should be worked which apply to the point whether the reserve should be attached to

I believe that the chief argument brought forward to show the necessity for waters being lept, after being landed for a year in a depôt is that the animals when in Australia are in a natural state During the voyage they are in a highly uncertaint state, and they are in the same state for some time.

I do not think that this argument is linked water even the orbitally. I grant that the leaves

are m a natural state in Austral a where they are always loose and can get no food but what they can are in triant's even master as when they are manifoldly unrefund state when they are landed Up to this point the argument is transle, but the horses are containly not in a natural state in the receive depote, considering that they are find on graum and force, and that they are ground and shabled und eithful. This is a kind of intermediate state between nature and word, and the horses three very well indeed under the system, but, considered with reference to hard work at the callest period consistent with health, I do not think it necessary or even expedient

It must I submit be beine in mind that we do not want hoises in a natural state but in a state that will enable them to work well, and I consider that when you want work you must drop nature and that the sconer after a horse is set and furnished you get him out of nature and into work, the better

these second area a notes to set the data instruction you go that not a money, and may well as the set Let twelve horse be taken by channe from any tothe of tenty, landed witner send sax also taken by channe to a tester of cipic and it me, or any practical man who has some I now loige of condition any and be lang in relies, take the others at I should commence on taling my are soon as thy could stand any work, and I should watch how they worled and how they fed and I should onderwork so to regulate matters that condition and work and acclimatization should all go on together. I should so to regarded and desembled of the houses were not sectionary to some up of the supposed and the supposed disappeared in the houses were not dong frue would in a furne or formouth, good wo k in as the months and the form of the sound of tracks meaning the formouth the sound of tracks meaning. Houses are tracted would, in may goine to find more? It to for may not it the end of tracks us that has been a year life at the reserve dong that the sat that has been a year with the sound of the sound o second or we find at montas were one may proceed on the total and pound the naths, before they was been such, after the year had expired and they had goined the naths, before they was done for to anything the Land text in I feeled a merce such at manufed fronted as more result because more easily broken in than those that had been allowed to become a year older in alleness

more eventy structure in main tones stant, has been showed to become byter other. In thinness.

These reguments if they are correct will apply, I think to a smiling remountal effect to regiment
and britteres provide the officers concerned on be deposited on to have the repeated to conditioning and breaking in nearly landed vallers. This knowledge is, in my opening,
coexistin to success for many of these houses when recently landed we very belish animals to def
with and require expension yallogeness and knowledge for turning

The value counterpresses pagement was more access to apply to reserve borses but I do not think that flow of the reserve that the set of the reserve the reserve that the value of the reserve that the value of the reserve that the value of the reserve that the value of the reserve that the value of the reserve that the reserve the value of th

and would probably never belong to it and there would, I believe be no means for breaking them in,

or working them prop sty and regularly, without which the whole thing would certainly full.

Moreover my plus although I believe it to be the better is certainly the more expensive, unless of course the horses were wanted for worl and so pud then way, which would not be the case in the reserve Food, attendance (for they would require a syce for each horse), breaking in expenses, contingencies, &c., would be more expensive according to my system than in a reserve depot and taking the whole subject into consideration, I am convinced that unless the horses are wanted for nork or at my rate unless they can be properly worked, they we far better at a depôt than with regiments of batteries

Moreover, although thus paniaps is out of my province it appears to me that these horses would, in a military point of view, hamper the regiments and bitteries to which they are attached and I tink that the system on an emergency might prove dissistence. If a nur were to break out and half the mounted branches were employed immediately the whole of the reserve would be absorbed at once It would then become necessary to make large purchases as soon as possible and where could these horses he sent? The necessity for a regularly organized establishment for the purpose of receiving, taking care of, and distributing when in condition, these horses would then, I think, become abundantly apparent

The pent of expease will be referred to in my reply to question 7, but I may state here that the actual tep of a horse at the reserve deputs is very small. What inviess it a pear expensive is the cost of the exchibilation at which is thrown on the reseauchs, and but is small port on of these would be got int of if the reserves were lept with the regiments and brittenes. The director, the remeant

agents, and the establishment in Calcutta would still remain

Appendix (1199)

To co ps u d batter es. I beg to point out the advantages of a

In conclus on with reference to these questions I beg to express my opin on that if as I behave a reserve is necessary the present system as the best the cleanest and the most effice t that can be de ned b t f eserve a not required I should cons der that the remounts should go direct to corps and hatte 1 s

Only one reserve a squired at the remount depot Dessoor mone Co a 1 A Drucy Agent for R moun s Co per should I e attached to corps or butternes

Ma or W A. R butta m.s. Re

mosat Ae at Ca ca ta reg menta rese e of remounts over the preent system of reserve depôts in odd t on to the s ving of the establ shments lat-In case of a sudden call to act a sence the tresh young to as are present and available for

the ranks

2nd —The commony a travelling on sees. At present water seem axis a sent from Calcutta to Hapur and Sales up u by I (to state on for the forms place being Ghazacahad) from which depots they are instited a re- pa and latterns excepting the batterns at and helo v All-batted which no v rece ve d rect from Calcutta

To difference of rail my fares between such statuous and Gh zecabad would thus be sweet amount in the case of Ca vapore (for Cvn pore Lecknow and Stepar) to over the 1900 per amount in the case of Ca vapore (for Cvn pore Lecknow and Stepar) to over the 1900 per amount it ingo by the amount el placement of losss cast (e.g. 7 per cent) bestes avoiding the expens and touble of the march down of it see houses from Hayur to the ristit ons

8 d-I submittle time spent by where amounts at a escree de of a practice by we sted and that so far from control tang to then effice ey they become sly ef Auropeans and masterful over g to ther freedom vi ch I the almost be nyarous to the lage of a horse the has q to lately

over the first the bose need direct to copys and batter es they could not once I chandled by Laropeans and would be bette and more e s ly broken my the less days to the men. The sopnous standed on the second number of the men. the exper en c of tile ho ses of I despatch filem from here and my exper ence of the arr val of a batch

from the eserve depôts a tile buttery a lach I served Mayr A Cop Offi ting Sen A tan S p n e ort, Army Remount Depôt, de horung e I am of op n on that the actual reserve of remounts should be kept

rt one de ot I do not think it would ever be found to answer to attach them to cons and buttenes
I then fithe butte plan was adopted to would go einse to great

confi sion and we ld be extreme y meouven ent in many ways Bes des I doubt much whether the expend ture on one we haves a y they were attached to corps and battle es would not fa exceed a the aggregate the amount the same number of horses would

cost if ttached to one re erve 1 put I refer of course to cost of feed establishments and contangences

P F Co as F q P pol Votenza y Sa geon E ngu Army Each caval y regresent should have to own reserve attached to to placed as etv ity remounts are at lome solely unde the case of the rega me tal veter sary surgeon subject to the commanding office scontrol and under the choist e management of the riding is ster and they should

he sent de a deput fix che faible rag resents — d'autre de correction de sent de a deput fix che faible rag resents — d'autre de services d'a vele array surgeans for a hettery can never be rel ed upon sent l'a rel ag mestes does not es si with each latte y and to mily commanding officers are not of 1 emselves as a nile eq al to the management of a eserve stud judging by the rot ary knowledge d splaye in the two accomp mynn, lette s from an officer commanding which I think will tend to se fy the statem ni. U der ommanding office as mular to the one above refe ed to a d of h eh there a e b t too many I fear a the serv ce at would not be conduc ve to the best at sts of Go erament to pace young macchant zed horses

Copy of lette No — (Casualtus—He es) dated August 18 9 from Officer Command og —Battery
—B gade Royal Art He y to Officer Command og Royal Art He y —D va on

Will refere co to t repol of the deaths of three bitery hor es two on t e 31st ultimo and

With reference on the impose on the content of the water The furre informed me if at he was unamy afart of the bine a numer so I fold him to use the I nod de of me can masted the bounde of meery homere a kept in its raw state and not re dy prep red I ke the pe which de That the was ove looked and when the bressing was applied to

acted as so e a blate came mg so much r t. ton that and mmat on set a and an spate of every effort to reduce at the borses succumbed

Coly of letter Ao - (Horses) dated A gust IS 9 from Officer Commanding-Battery -- Brigade Royal Art He y to Stat on Staff Officer-

Will reference to letter No '169 from the assistant ed tinit general O dh d us on dated 4th Au, st 1379 I have the onor to state that du ng the tack e months that I have commarded thus And, is 1979 I note ted the horses in Her via one decrease (some of high in e term nated fatally) in thout of er ses stance if an int of the fire engrenation in three is each into occur to me on the occas on to apply fo the servees of a retermany surgeon e there in the first bot use or affer the death of the two he ses on the 31st July

(1200)

J H B Hallen E q Comeral Super aten lemt of Horse Broech ag

To one depôt In this depôt Austrilian remounts should be accluse tized for a period of from six to twelve months according to circum stances Erstern horses (Persira Gulf, Anab Cribil and country brd)
might be issued when in condition, or if bought in good condition be

sent direct to corps and batteries

As British eardly con's have each a nding master and veterinary surgeon so in reference to question No 4 Austrilian remounts might be supplied them direct when deemed necessary and dung the period of reclimatization would be under the professional of rige of the veteriority surgeon, as obtains and is found to answer sat stactorily with remounts of cavalry on home service and when fit be handled and brol en in by the rid ng in aster

As there is 1 of a retering we surgeon and a riding master with each battery of artillery it is always able that all artillery remounts be sent to the reserve depôt 1 ending the tame when they will become fit

and required for allotment

I tale this opportunity of earnestly alvocating that the very excellent and economical system obtaining in the Madias Opesion remount deput, of freeting, handling and training remounts, sheld be introduced in the Bengal depot

I had the opportunity in December 1978 of judging of the very practical worling of the Madru denot, and would solve the perusal of a report on this depot by the inspector general of author is 1876 submitted to the adjutant general for the consideration of this Licellency the Community in the constant of the consta

G Prans Esq Inspect og Veter mary Surgeon End C rele

Attached to corps and butterns, because the more they are distributed the more officers will there be responsible for them and the better chance will there le of seem ng at least the best average attention &c, paid to them When they are all together, they may all be exceedingly well managed and economically or very badly managed and wastefully depending upon the character or uptitude for that special duty of the senior officei in charge

W Lamb Esq Inspect ng Voter mary Surgeon Bombay Army

I thal that the reserve of horses for the Bombay army should be kept As no teas an exercise to come agreeme posting termy simulate order may singum blooding atom; and for the purpose Almeshagu us puriously well adapted. The climate is god horses do well there foregoe is generally shorp and these is sample and good stabling now unconsidered and ready for use. Also it as very central and accessible, being on the loop line of the Greet Infan.

Peninsula Rul vay (the Dhond and Manmad Railway)

The objections to uttaching reserve horses to corps and butter as are first that, being scattered all over the presidency the reserve could not readily be drawn upon in case of emergency second that Gulf horses, having to be enstrated and Australians to be acclaratized require special care during that time. This special case can only be given by those having special knowledge. Officers of corps and time. This spectric care the my target and often quite new to 10 peculiarities of collections, being so constantly change I and often quite new to 10 peculiarities of this climate all country, cannot be expected to lave if it spould knowledge or experience in the sum digite is often of a normanent establishment on satisful occupied with journe losses would have. Many young veterancy surgous recently from England has been I this or no practice in estitations, and the lamost stall less

F G Slaw Fsq Stuff Veter mary Surgeon Madras Army

In this presidency the reserve horses remain at the remount deput where the cost of forage and attendants is over one third less this with a regiment or battery

J V G Advers Psq Veter nary Surgeon Remount Depôt Ocessor

I am of opinion that the houses should be retained at the depôt (one is sufficient for this presidency) to be ready for issue to the service when

4 If to the former, should they be worked or held strictly as a reserve, being merely broken in and excreised?

L sets ant Gener 18 r S Browne, x c.n Con mad g Labora D s or

Opinion not required, as reserve depôts are recommended It ose attached to butteries should be merely broken in and exercised

B goler General C G 1 h ti not c.s I specie General of Royal Artillery for Incha

until they have been one year in the country and a e five years oil, after that they should be put to hight woil, at the describin of the community and a five years of the community of the put to hight woil, at the describin of the community of the put they should be transferred annually to the battery establishment. lishment as vacai cies occur

Loutenant-Colonel II C Sm tl Super ntende t Reserve Remount Dopot Sahngunpur

To bred in these horses at a depot to any good purpose would require a very large establishment. And I consider that no comments rate six units go would be obtained by adoption of this measure.

Remounts the shift is considered by adoption of this measure.

Remounts should be transferred from the depot to the service in good health good condition and comparatively free from tundity bet-the bred ing in should be done after they get to their respective corps by the establishments kept for that purpose. This is the rule that less obtained by their conditions. obtained h therto, and it has worled well

Colonel A Drury Agent for Remounts Gossoor

No reserve with corps and batteries

Mayer W A Roberts D.L., Re mount Agent, Calcutta

They should not be worked but be held strictly as a reserve, broken in and exercised at the discretion of the officer placed in charge of them

Major A Capel Offic at ag Senior Assistant Supern tendent, Army Pemosni Doyli, Saturan

The best way to cheapen remounts without impairing efficiency is in my opinion as follows --

Al olish the remount agency as at present constituted in Cilcutta, and let the drives of the remount agent he performed by the director of army remount operations, who, durning the cold weather has next

to nothing to do.

Let the remounts purchased there be sent up country at once than kept at Calcutta, where feeding is very expensive, and let there he sent up under charge of overseers with a pass, and not under a veterinary surgeon who arms some 400 rapes travelling allowance for each journey up and down

Bevert to the old station creting committees, and thus sine the expense of two committees, each

consisting of time officers, trivilling ill out the country drung the cold venture in sequences, case and containing of time officers, trivilling ill out the country drung the cold venture of the Abalad farming of centous at the reserve depth, se contracting for grant and fedder is charge for, beging on oilly sufficient number of balled is for heering, implies and carrot cultivation, thus would be about thely necessary.

I write the above on the supposition that this depôt Scharunpur, is lil ely to be retained as the reserve semo int dej ot

For I believe firmly that abolishing farming operations here would be a considerable gain to the

Government My reason for saying this is that at Saharunpur these are about some 3,000 pucks beegahs of land, the property of the Government, a buch land is now called the depôt farm

After retaining as much of this land as would be necessary for lucerne implies and carrot cultivation, the remainder of the land, I submit should be faimed on the following system, I nown as the nulf battye and which was purched at the old Possih stud depôt and by which our supply of caten straw was obtained—our standard fodder, which horses always cut greedily, and with benefit to themselves, when other forage, such as gr en grass, &c. , fails during the writer and dry months of

the summer

I here describe what the half botty e system is-

I mere unserned when we made using a system on—
Say you have Juffold beeging to fland, it is individed out in small portions to. Natures, on thus agreemont say that a new holds to begain 8 th of the 5 he may calted with his own crops for his own
benefit the other 25 he hands himself to collevate for the depth with cost.

The depth provides the unsumes with seed, he on his just ploughe sons, cuts and hands the ontain struw and brungs it to the depot stack and to be weighed on his own cuts, without any actual payment from or to the depot further than that he holds his own 24 becarbs free of rent

If the assumees here would not consent to these terms, they might be paid at some nominal rate for the oats

In fact, come arrangement could be made which would be fan for both parties to the transaction.

By this incongement being adopted, I teel certain that forden could be got in cherges than it is now by depôt cultivation and the uloss farming establishment of periodic, malis, one ploughman

and bulleds, carts, so could be dispensed with I now that the present supernitendent, Colonel Smith, is opposed to this system and so I be-lieve is Colonel Compa. But that does not ritter my opinion that it would be cheeper to work the far m lunds on some plan inke thus throw the may it is managed now.

Anadeur farming operations are very interesting, but no all know, at the same time, they are

very expensive
When d d a country gentleman ever mal e his fame pay?

Petablish one reasing depot, and purel me young country bred stock at 7 months old and upwards In making a reating deput, there is no necessity for expensive huldings. Thatched mud huts would answer quite well, with a pucer growing and water troughs
The stock to be reared on the liberty system, amount of gram to be dependent on nature and

quantity of past mage

One spec to be I opt an every are head of stock up to 21 years old

One to three over that age one pemadic and make to each stable. Lading stock do not want elothing or greening but should be supplied with plenty of bedding, which is cheap enough

They should be allowed to run loose as much as possible in fact, should never be tied up Horses so reared si onld not cost more than Rs 700 or Rs 800 all told by the time they go mto

the service

Such a system would ensure a constant supply of remounts able to stand the charate, and the majority of them well suited for cavalry purposes

migrating on mean one names one canny pumpose.

It led usual drive, unless such a del die is formed, and young stock, purchased from the breeders to be revised there until 4 years old, the Government will discus grounds the name, at, with the same deplerable results as those old, med by the remount agent of the North Western Provinces for the last three years and a half At present nearly all the young country bred stock as I ought up by the dealers

Breeders as a rule, have not the means to keep then stock up to 4 years old

Their object is to sell and realize as soon as possible after wraming, and they find no difficulty in

dong so

There are alsa ay a cortain number whose succentrivess compel them to sell and the dealers, on
There are alsa ay a cortain number whose succentrives compel them to sell and the dealers, on a look out for a chem burgain, buy them and take them away into the Natave states, where they readily dispose of them

The excelly poles and public buy 2 and 3 years old, and if the Government make up their mands to buy nothing under 1, if ey would of course get very few notecol When I say their a rememb so record should only cost Rs 700 or Rs 500 by the time he goes into the service, I go upon the facts that the average price of a country bred yearing, as given me by the remount agent of the North West is Rs 167. His keep, including strible establishment and contingencies for 1 years, should not be more than Rs 6 a month, or Rs 72 a year, or Rs 238 for the 4 years.

His paice and Leep show therefore a total of Rs 405, exclusive of the pay of officers, overseers

and office establishment

I do not know whether it would not be possible to make a great reduction to this respect

At the present moment it must be very here;, as the director of unny remount operations estimates the cost of each horse lept at a reserve depot as Rs 330 per annum.

Our verge 1 to of feed for last mouth, including stable o-tablishment and contingencies, was sometime below Rs 9 8, or Rs 114 a year

In cherp grum years this of course would be much less

An energy in the difference in each boss of Rs 210, cs, on a reserve of 1,000 horses of two laths and stateen thousand rapses shows that very heavy expenses coals elsewhere, over and above the actual cost of feeding remounts and then stable establishments.

I am of option that a nearing depôt properly started, with only its actual legitimate expenses charged thereon, should be take to turn out remounts at a years old, from Rs 700 to Rs 500 mending all expenses.

If such should be the case Government could not complain of the result on the score of expense.

The conclude, I must submut that the present method of Leeping a number of horses over and

above the actual requirements of the State is simply a unous

The two depths 4 Haper and Salerampur control when 1,500 head of stock, which is first over and above what is necessary. Thus is illustrated forcubly by this concluding feel, that at this depth alone the following houses have been keep there at a great expense, simply doing nothing but eating their heads off. The question is, should such be the case, our your depths be cherp on such a system?

I note on the following page the date on which certain houses armed at this depôt from Calcutta, and have been standing here ever since doing nothing but costing money to Leep

Date of ar	resal fro	m Calcutta				No of hors
Novem	bet 18	74		***		1
Octobe	r and I	November	1875	***	***	3
,,	22	25	1876	***		18
23	32	22	1877			19
31	,,,	27	1878	 		. 259

The 56 houses that arrived in 1874, 1875, 1876, 1877 must have cost nearly Re 20,000 Leeping, at Colonel Comper's calculation of rupees 330, the cost of Leeping a remount per annum If a runsely could be found for this state of things, as of Leeping more houses in reserve than

were actually necessary and wanted, surely it would be the saving of a good deal of money

P F Collins Esq Principal Vetermanj Surgeon, Bengal Army

In the exvalry they should be held structly as reserve, metely knoten an and exercised. The first year of adopting this system double work would be thrown on the nding establishment but subsequently no extra work wolld be required, as the reserves would then only have to be broken in

The artillery reserves should be eared for and broken in similarly to the principles established at the Oossoo stud in the Madias picsidency, which system will be no doubt diluted upon by competent authorities

J H B Hallen Fig General Supdt Horse-Breeding Operations Answered in reply No. 3

G Erms Esq Inspecting Vetermary Surgeon 2nd Carelo Some of them might be put to wok soon if the velocity mageon in charge certified that their points neer well formed and they were generally in \$F\$ condition. I conside that steady work would be good for them as soon as they are thousageby transel, so long as it is not too severe for it are go I running should velong be graded and show but it is not too such as the ripid movements, the endden wheeling round, and pulling up, that turns points not well executed.

W Lamb, Esq., Impeting Voter lasty Surgeon Bombay Army I do not advocate reserve horses being attrahed to corps and hatternes, but if that measure were decided upon, I should advise their being worked

P G Shver Esq., Staff Veler-Inary Surgeon Madras Army

Normally the reserve boxes at the sensons depth asset on the farm, but their resistance is abolin required, the work being done by special or from horses, so, here suggested as tensomits for defects until the first for turny use Deep losses at the Oceasor rement dep at a broken in, and is, after a few months' archimetration, fit to drift into the sext.

J V G Adams Esq Veterioney Surgeon Remount Depôt Go soor

I am of opinion that horses of the reserve should be retained at the depth and instited in all respects as follower emounts, being simply brokes in and exercised, that they may go to the serve fresh horses, and not half wan out, as many doubtless would be if attached to regiments of latteues for work.

The horses of the reserve would be issued annually, or as they may

be required, and replaced by fresh horses

5 Would any, and what, extra establishment be necessary for this purpose?

Leut Geal S'r S. Boo me E CB , Command ag Labore D vanon.

Openion not required, as receive depôts are recommended

Br gr Geni C G Arbethaet c.z., Inspector General of R. A. for Ind a Grass cutters as for other horses, and one spee for every two horses

Licut Col H C S a th Supdt. Reserve Remount Depit, Subarum

Answered in No 4

Colonel J D Couper Director of Army Remount Operations

Extra establishment would I suppose be necessary but I do not possers sufficient knowledge of the interior working of corps and batteries to enable me to answer this question satisfactionly

Colonel A. Drary, Agent for Re-

No extra establishments are necessary

Major W A. Roberts R.A., Remount Agent, Calcutta

Only the spees and grass cutters, with a penader if the number is large. The receive horses could be pleved in charge of the riding master or adjustent of cavely y regiments and the replican of a lattery, or some officer that would take interest in such a charge if the captum is not actable a. Here? Notethal losse bows, for the horses to be left loses in at first, could be run up at a very trilling cost, similar to those me can the handing depth lare.

Major & Capel Offic along Sensor Ass start Superintendent Army Remount Depth Subaruspur In my opinion this could never be found to answer It would be preferable to strach them to corps and batteries, but I

do not recommend either course

I think, even if you found the men to take charge of remounts
under these conditions which is most doubtful then in objections that
could be used agrund such an arrangement would be found fur to outweigh whatever could be said in its favor.

F F Coll us Esq Pransyd Vetermary Surgeon Bengal Army

In the cavalry one sensor sergount of the regiment would under the regimental veterinary surgeon be in charge, and the only extra establishment required would be a syn. to every two horses.

As regards the artillery reserves, the system adopted in the Oceanor.

J H B Hallen Esq General Supernatement Horse-Broading Operations

The extra establishment required for remoints if sitished to carrity, should be hunted to one extr specific extra two horres.

A sensor and selected suggest of the corps should be detailed to have change of the remoints under the veterinary suggeon.

I do not think that any extra regimental establishment would be

G Evans fin Inspect og Veter mary Surgeso, 2nd Circle

necessary, except the syees with a good seigeant and some steady troopers or divisis to look after them None, except a few syees

stud already referred to should be corned out

W Lumb Etq Inspect ng Veter mary Surgeon Bombay Army P G Shaw Etq., Sinff Veter nary Surgeon Madras Army

No special estivitishment is entertiated for reserve lower at the remount depot they are handled and broken by the sowarm of the fixed establishment. In fact, beyond their absolute cost for keep, no special expense is incurred.

J V G Adams 1 sq. Voter mary Surgeon Remount Depth Obsseer At this depot there is no special establishment for borses of the reserve, they simply have the specifor every two horses and are treated in every way as other remounts, being prepared for the ranks

6 To what particular divisions of the army should they be posted?

L calonant G noming r S Bos von E C.S Command og Labore Drusson Be guher General C G Arbuth not, Cu Inspector General of Boyel Artillery for Ind a Opinion not required, as reserve depôts are recommended,

Lt. Cal. H C Sm th Supdt Re

To latternes of the divisions for which the reserve is maintained, and which should be those nearest to the north west frontier

strve Remont Depôt, Sakurunpur

Answered in No 4

Colonel A. Drury, Agent for Remounts Cossour Magor W. A. Roberts B.A., Re mount Agent, Calculta. To none

The same spont I recommend should be left to fresh orders manufly,
draws young on the annual relat! For metamos, a corps or britery whole is to more from a down country to an up country station might be supplied with a strong reserve city or the evenus or towns the close of the previous except, while those coming down country might, if

their arrival is to be at all late depute an officer and Native establish ment to then new station in advance, to receive their reserves tall the head quarters will e The earlier in the season this could be done the better as Calcutta expenses on houses are high

This arrangement would save travelling expenses

Major A Capel Official ng Sen or Ass stant Si peru tradect, Army Hemount Deptit Salaronper

The reserve should be kept at two depôts, there should be one rearing de ôt and one reserve remount depôt

Any Remond Dight Scharzese.

As long as which we principled—and I believe they will have to be punchesed for navny sens to come, both Joseph and the class of the sense no other class of covered that horse and field betterns will never he properly housed unless by the water, it mind, it will be discovered that horse and field betterns will never he properly housed unless by the valent, the majority of whom are admirably saided for drugsh the source, the other properly and such stance so essential for utility purposes. As long, then, as you import waters, you must have a depôt to send them to

It would never be found to unswer to send them to corps and batteries

Horses first landed from a long sea voyage require really careful nursing, that is the only word you can use for the first six months certainly, if not longer

They are we at this depôt most of them very much out of sorts very low in condition

They stand most puticulally above all things in want of exercise in large grass puddocks or runs, where there is guzing and exercise combined, and where they can stretch their legs after being emmped on board of ship

This of course they could not get elsewhere than at a depôt

Another great point which may appear most trivial at first sight, guined by depôt treatment, beyond the general improvement of health is the extraordinary good effect it has upon the tempers of walers

I remember well when this class of horse was first imported into this country, how constant were

the compliants of then buel a mpmg vee, tundity intractability, &c.

"the binter I would rather not lave them," you used to her officers say "they we such a
musance to breash in I would rathe have stud bleds, they we less trouble."

You scarcely ever hear those complaints about walcos now

Here and there a horse is returned for vice to the depôt, but very seldom does this occur.
What has made the water to be so favorably looled upon by on any and artillery officers, as to the best class of remount that they can get, is due to a great measure to their treatment at the reserve

Many horses arme here from Calcutta that no one can approach six months after their armyal,

the horses, as a general rule become pertectly quiet and tractable.
This result, I contend, would not be graned anywhere except at a depôt

I am firmly of opinion that, as long as walers are maporical and purchased as remounts, they should be sunt to a reserve depôt

I have already given my reasons for the opinion that I hold, that there should be a reasing depôt F F Coll na F₂q F₁ ne pal Vetermary Surgeo Bu gal A my

If I understand this question aright, it is answered in No. 3

J H B Hallen Esq Cene ral Supersaturadent Horse Breed or Gnortions.

Curally remounts should not be attached to any cavally corps quartered on the frontier or at stations whence it may be expected the corps may have to move on field service

G Frank I'sq Inspecting Veteratory Surgeon 2nd Carelo

Divided between the cavelry and artillery, but not at notonously unhealthy statons such as Burnel pore They should be allotted it first to the corps they are most likely to be serviced in a There would be afterwards a final realletment, because horses often change much in growing

W Lamb Esq Inspecting Vete-many Surgeon Bunkay Army

Alimedningger in the Peons d vision is strongly advocated as the and survivinged in two 1 tooms a 1 tooms is storing? Tuttertien by the most surviving too for a teveral depth and no other is considered needs run for this previouse. But if our tenent acquastions and extended nilosense in the direction of Central Asars hold it earlibe us to reach or top by an ocal and route the grand a simple es of Turkenum houses deceived by Colonel Vilentian B has and other turbullers, it might become advisable to form a supplementary derôt in Sind of in the Pishin valley for the supply of the tools there

P G Slaw Evq Staff Veton mary Surgeon Vadrus Army

I do not think any improvement could be made in existing arrangements either as regards economy or efficiency

J V G Adm τ Γ η Teterstry Surgeen Res out Del St Outsoor

In my reply to question No 3 I have stated my opinion that they should be retained at the depôt

7. Can you suggest any more economical mode of maintaining a reserve?

Lestemant General ٩, Rouge ren Labore D vision Comma ding

For the good of the service, efficiency is the primary and most important consideration, for which reason I am in favor of the depot st stem

Brigge Gond C. C Arb ti put on Inspector Goal of R A for India

None

I cutennat Coleach H. C. Sue th Supervision by t. Reserve Remount Deptit, Scharunger

Considering the almost frame rates for cara that still prevul, it would be difficult indeel for any horses to be lept for a lower sum than are the reserve in the Government depots of Saharunpore and Hungpur at the precent time and were those remounts with regiments instead

of an the depots their feed and attendance would cost at least double which these wor. It is not the legitlands working expenses of the department that are high with armises it cost is because it is weighted with that which is of no use to it because it is charged with an outly for things with which it has but a nominal connection,

and because hundreds of foreign horses are pur hasted and lept by its necess of the wants of the array. There we may was I sould suggest for the extracte of recovery in the most of marktuning the reserve and ways too that extending longist to said to be efficiency of the department, but as such matters need to be treated in detail, I must refer you to the statement? appended for my recommendations maint the market produced from the commendations maint the market produced from the commendations and the statement of the commendations and the statement of the stat

Colonel T D Compor D rector of Army Remount Operations. I cannot suggest any more economical mode than the present of munitaning a reserve, but I think I can show how the present mode can be more economically conducted

A short time ugo, on recept of a letter from Government regarding reducing expenditure in every possible way, I went crast fully into the expenditure of my department when I found that the executive for taking charge of a thousand horses to two depots as a follows—

whereas to take charge of 2,700 horses in four depôts, and 2,000 brood mares in the districts, the executive in 1806 was —

I brought this matter to the notice of Government, with suggestions as to how it could be remedicd, but these suggestions were not approved, and I was directed to temedy the matter in some other

I have ascortained, by personal inspection and otherwise, that the whole of the thousand horses now kept in the tee reserve depicts can be kept in one (Sabrampiere) and the adoption of this measure which will shortly be submitted for the approval of Government, will cause a saving of at least Rs 5 000 a year.

I am also about to recommend to the Government that the establishment in Calentia should only be kept up to as must be metead of as at present, for the whole year, and this measure, if smoothened, will cause an annual same of Rs 10 000

The horses are now ruled up from Calcutts under the change of an overseer instead of being kept until the viternary surgeon on id recompany them. By this means the cost of the keep of the horses in Calcutta is calcu and viso the cost of the veternary surgeon a traveling expenses which in one year one outed to up and of Re 4 000

That is no doubt that the department will be cheap, and will be by far the most economical and efficient way in which the reserve can be kept, provided the department is one expenses only are theory, against the

Colonel A. Drary, Agent for Remounts Cossocor

The present system of keeping's reserve at one depth is the most common of The permisent establishment must be kept up throughout the year. The only additional cost per loses so an average about Rs 13 per month, including all expenses for attendance, forage and vetramay drains.

Major W A. Roberts E A. Remount Agent, Culcutta.

I cannot

Mayor & Capel Offic at ng Sen or Ass stant Superanten lent Army Remount Depth Subarunpur

Depends on age Sx months' proper ever and attention will generally nule nearly lended values fit for work, but if 3 or 34 year did hoves may produced, they require to be lept's longer time, in order to develope themselves and become fit for the not very light work of a troop or battery hore.

F F Coll as Hog Princ pal Vetermary Surgion Bengal trans In Judin I question if any more economical and efficient method of maintaining a reserve can be found than that suggested

This subject has been under my consideration for many your past,

J H B. Hallen Evq General S menatendent, Horse Breed of Operations

and I am of opinion that there is not a more economical mode of maintaining a reserve than that indicated previously by me

G Evens Esq Inspect og Vete runry S rgeon 2nd Greke W Lamb Deq Inspect og Vete runry Surguon Bombay Arror

stuglete I connet

Appendix IV]

F G Shaw I's Staff teteranty Surgeon Madras trusy J V G Adams Esq Veter nary Surgeon Remonat Deput Ousson Answered in No 6

I can suggest no more economical or efficient mode of maintaining a can suggest on more economics or emerge mode of maintaining a reserve than that custing at the depth. The reserve is he had strictly limited to 100, and the horses are treated in every way as other remounts prefaring for the service and I am confident that in no other department could they be kept at less cost

Would it be feasible to allow this reserve to be kept by private individuals at large stations, to be maintrined at their expense and used by them, but subject to periodical inspection and immediate recall in time of war?

Loutement General S r S Browns K C & Commanding Labore Divi

I think the issue and loan to provide individuals would be in unsubstactory system
Officers only would tale an interest and pride in
properly looling after Government horses they cannot afford more than what is actually necessa v, and they could not be deprived of them at the moment they were required when ordered on service. Moreover, all uding masters had it much quicket and simpler word to break in fresh horses than to instruct animals which have been used for other purposes In my opinion it would not be feasible, but the experiment might

Brigad er General C G Arbuth not, o B Inspector General of Royal Artillery for India.

be tried at once on a small scale No at would be utterly impossible to maintain a reserve in this way

L sater unt-Colonel H. C. Sm th Superante des t, Reserve Remeant Depôt, Saharanpur

There are no private individuals so circumstanced in this country as to enable them to leep any large body of horses at all, far less to keep them as the army reserve ought to be kept Such an arrangement would be found unpracticable in every respect according to my judgment. The reserve now is formed from the last purchased horses which are inefficient on joining the reserve but become

Colored J D Couper Derector of Army Remount Operations

efficient before they are sent to the service. Private individuals would never consent to recent e medicient horses, and if any other plan were adopted, the result would be that the private ind viduals would have the efficient seasoned horses, and the mefficient unscasoned horses would be sent to the service

Colonel A Drawy Agent for

Utterly impracticable as regards efficiency, and no private individual could keep a horse for the same money

Mayor W A Roberts E.A., Remount Agent Calcutta

I do not I doubt if they would meet with proper treatment, even if private individuals could be found who would accept hoises on such

Г Г Coll us Esq Princ pal Vetermary Surgeon Bengal Army

In Europe this system is probably favorable, but in India the scope for selecting fit persons to undertake the clarge of reserve houses is too limited, and the system therefore I do not consider feasible

J H B Hallen Feq General 8 sperintendent Heeso Breeding Operations.

This system does I believe obtain in countries in I urope, but it does not appear fee able in Inday, as the field for selecting private individuals fit and ready to undertalle the charge of army reserve horses under the terms noted is too limited A trial of this eyetem where found practicable, may be made but

G From Fsq Inspecting Vo-termany Surgeon 2nd Carelo

I doubt it proving in the end so satisfactory or economical as a reserve denot on the Cossoor lines

called away on service, and when he would most require a horse and unable to suit himself in the market. A similar system once prevailed

W Lamb Eq Inspectors Vetermany Surgeon Bondoy Arms

I think not

I do not think any scheme of this kind will be found practicable Europeans officers and others are too hable to sudden and frequent moves from one station to another, and Natures are, as a rule, but horse masters that entrusting raliable animals to them nould, in my opinion, lead to greater losses than the leop of losses unemployed by Government would come to An anyangement of this kind seems to me possible only with some large establishments such as the tram way company in Bombay but I should be very sceptic I as to its

success, the neur and tear of horses being so great in that kind of nork F C Show Dog Staff Voten nor; Surgeon Madras Amoy To a certain extent it would be feasible to give the use of pair and angle, viso saddle, horses to approved persons a consecution for their keep. For the most part the single or siddle horses would be made use of by infantry officers as a largers for lut the occasion calling for then surrender ng the horse would be when perhaps the officer would be

in this presidency of himtig out commissant makes to private persons for the cest of their less pain their limit the signify was not expension the demand. Though I saimt the "foredulity," I very much depresent the practice. Contacts and conditions would have to be entered into between Government and their servints, and endless disputes would name.

J \ G Adams Fsq \etermicy Surgeon Remount Depôt, Cosses

I do not consider it recall be feasible or concentured, as in spite of my periodical inspection, it would be impossible to present a navenum of nork hong carefact from these horses and I um of opinion if all thorses of the reserve should go to the service with all their north before them, as other remonsts, and not as half vore-not house

9 Should remounts purchased in the open market go direct to corps and batteness for work, on be gradually acclumatized in the loserve, attached to corps or depots?

Lenterant-General STS Bearne NOR, Commissing Labore D :

Remonts should be purchased in the open nwhete, and if of mature age und olderwase fit, may be transferred to butters and at paramotal over at hand requiring remonts. This model the applicable more specially of country beed house. Oclounds generally urrice in such insertable condition many with seeds of clauses in their constitutions that great attention, musuage and runs in publicies are essential, and thus can only be ultimized at depths.

Brigadier General C G Arboth not, c n. Inspector General of Reyal Artiflery for Ind a

All Australium remounts should be acclumatized in the reserve and sent thence to corps and batteries for nort

Other remounts purchased in the open market should, if under five years old, he sent to the reserve to mature

If over five, they might go direct to corps and butteries

If there we reserves attached to corps and batteres those rever es should be the first to be sent to worl, and their places should be filled up from the depôts

Lectionant-Colonel H. C Sm th Supercotondent, Reserve Remount Depôt, Sabarun pure

No, remeants should never be transferred direct to copys and betfaues, but should first be easely to the depot and there kept till then sentory state was assured. The uppless to all betwine expertitly to wheets, as experience has preved how much the Anstria an bose has reen in have smore the depth system has been in vegue. Before this value, were slip purchased in large numbers, to supplement the outturn of the Govern-

ment study, which was quite insufficient for the wants of the samy, but they then had a reputation for but constitutions and heigh difficult to manage and were decidedly unpopular. And no recoiler for the poor cretions and then no chance of recovering their health, or getting bad, the full use of their legs after than long set voyage.

Colonel A Drury Agent for Remounts Oceasor

The Australum horses are generally purchased at Madres shout a wear all first leading, when they are quite unlik to undergo a long porms; They wend this depot (which as above the glabets and a good climate) within 36 hours, where they are generally put into loose looks, and turned out to gave in the producers for several ours every day and

gradually put to work as they regain their st ength

If sand direct to come they would often have to undergo long parameter before they reached the comes or hattery to which they are alicated. They would tale longer to secorer, and the expense connected with their long while they we doing nothing would be much greater than at the deput, besides occupying the time of men who have officer drives of temperatures.

All houses at the depôt me brol en to suddle, and many to harness, before they are sen' to the

service
The Airb, Peasur and northern hones all undergo eastration at the depth before they are sent to the service. The following will show the result for the past on yours—

Years				cast	rsie l	
1873 71					266	None
1874 75					37	None
1875 76					\$3	2
1876 77					243	None
1877 78	***			,	203	1
1878 79					196	8
					—	_
		To	ital m six yen	8	1,028	6

Major W A Roberts R.L., Remount Agent Cakotta I am not quite sure as to wint class of imments we here referred to If Persons and country levels, they would not require the same time to acclaratize was whe does, now would a white longist me country, if he was not a first he headed one. Powing them to request and level up the point to the discrete only level point to the discrete communiting would, I flush, be a refer plan

A mber of I reses Casualty

(1208)

F F Cell s E q Prise pal Veterinary Surgeon Be ignl Army

J H B Hallen Esq General Supdt Horse Breeding Operat ous

C Frans Esq Inspecting Veter

W Lamb Fsq Inspecting Vote runtry Surgeon, Bembay Army

P G Slaw Esq Staff Veters nary Surgeon Madras Army

As stated in answer No 3, eavaly, remounts should be sent stright to their regiments when 1 of on service but when on service, they should be sent to a reserve depôt mear the base of operations. Artiflery remounts should be sent to the reserve depot.

Answered in reply No 3

Go to the reserve attached to a regiment or battery

Arabs, Pensions northern horses and country breds do not stand in need of rechimitization, but they have to be castrifed, and should not be worled until well over the operation Australians do require to he acclimatized, and until they have become so work is ant to injure, them. All horses, therefore, should be sent to the reserve when first purchased and not be put to work at once

Unquestionably the semounts should go to the remount depot, and there rested and acclimatized before being drafted to the service. In this presidency, the only market is Midras for colon als and the western coast for quental horses, the latter me brought to the Oossoon derôt at dealers' risk and cost, and as they consist almost evaluately of entire

Oossooi is most marl ed

I feel quite certum that Government gum considerally by having a depôt at Ocessor, and that the horses of this army do better service than they would otherwise do were they sent direct to regi ton mores or this vary us netter serve that may would could not be day whet they shall not let be eight much summer and the property of the problem of the property of the problem of the

J V G Adams Fsq Veter nury Surgeon Remount Depát Oceaner

Australian remounts are certainly unfit to be sent direct to corps or britteries for work, as they are often landed in a wretched condition, and take a long time to recover and to become accl matized

take, nongume or rever use to recent act manager to one and manager.

I am of openion that were they send duest to one and batterns, there is no send to one and the foressen it but stations, such as Kampite Secunderable to Bellary, would kill many trith and not recovered from

the effects of the voyage and journey up country I therefore think it indispensably necessary to send it ese horses after purchase at the port of landing to the depôt, where they can gradually be got into condition, acclimatized, partially broken, and prepared for the service

10 If the latter, what interval is necessary before they should be passed into the ranks?

Lacut Genl Ser S Browne, E c.n. Comdg Labore Dir s ou

They should have a year's acchimatization at the depôts

B east or General C G Arboth not CB I spec or General of Royal Artiflery for I dis

Le i Colo el H. C. Sm il Supe ale lent, Reserve Remount Depôt, Sakarunpere

Colonel A. Druty Agent for Personnts Cossoor

Australians should be one year in the country to acclimatize Other remounts should not be passed into the runks until they are five years

The time for remounts to be kept in depôt should in my opinion, be for walers one hot season and for country breds three months. After this interval, they should provided they are four years old, be available for transfer to the service

Horses are purchased in the months of November December, Junus, February and March they are ready to go to the service in September Some are ready sooner and some few the longer to recover it depends upon the condition in which they are landed and if it again on the nature of the 103 age, and whether they have been too closely packed on boardship

Should the horses be in condition to go to the service before Sep tember it would not be advisable to move them (even by rul) in the hot serson, unless required on emergency

I rom six to eight months may therefore be taken as the interval necessary before they be passed into the ranks As above only with a strict regulation that no water is put to any

Vaj r W A. Roberts R.A. Re mount 'g v Calcuits

worl during his fast hot weather in the country

F P Calline P q Prine pub he china e Surgeon Bengal hinny

From six to nine months after purchase The season for transporting artillery remounts should be considered

J H B Halles Esq General S p natendent Heese Bre vl ug Operats us

As above stried in reply No 9, eastern horses if in good condition and not less than four years of age, may be sent, as purchased, direct to comes and brittenes, if not in good condition, should be sent to the reserve depth

Australian remeants should unlerge in the reserve depict, or if stacked to evalvy corps, from six to tricke months period of neckina tearline, at the same time truning and breaking, before being presed that the ranks

G Erans Boy Inspecting Votermary Surgical 2nd Grede

I would not a no sinch rule for it depends entirely upon the count ton and age of the animal at first. It should be left to the electronry amigeon in charge to certify, when seed house west if Lary here as good lead in add to be got to not not of from upon to one spoulds, and got if not larny writes are so tuned that there could here only heading for some weeks, which should be got succeify done to gran their confidence. Much harm as come by heaping for mide, and then post them though a course of training leasest residuely.

W Lords Esq Inspecting Veterinary Surgeon Combay Army

Remembs viry very much in condition, ago, condition and so en, and a speci derl would depend on the climate and other carcumstances of the place they would have to just at But heress having only to indergo easterdare should be allowed from three to an months to recover (meany not being in a fit state to be operated on a tocce), and Austria has repume from sux to treate mention to become thoroughly occlumated.

P G Slaw Bog Skull Vote 1 nory Surgeo Montres Army

The interval depends more or less on the condition the horses are landed in and the anament of green foreign procumble. It were lower bettless of horses th for work in there months on the other hand and under disclassifiers, such as laid a verger and short green it has taken severe, eight and more months. Indirectless acree pool up or reclimation that these morrare

J V G Alams Day Vetermary Surgon Remount Dept4 Cosson The time after lunding that the horses are fit for issue to the service depends on encounstances —

Test, the condition in which they are received, secondly, the time

of you they are received, and shaddy, on the server.

Our expensions it this do it is tooms that first water 'Inded in illcondition only improve shouly and often do not just up at all till they
are get a full rathes of good serve their force. However, purchased in
the beginning of the year, and issued after the assembly of the annual
committee in September, at their time or un good condition and it for
vor. I twold therefore say that from our to more months is sufficient
to proper them for the ranks.

11 Do you recommend any change in the present grain ration for horses, in summer or in winter $^{\circ}$

Locaternal General Ser S. Browne, R.C.J. Command g Labore Dr.: eron I do not fain. One general rule is replacable to all fairly not only located ablesses for forest order for some data and the same pointify does not said all loanes. Some houses was a facilities as hoursen beings. Condition requires to be stabiled, and the description and quantify or throw some or the community of the common of the community of their and voternity suspects, and their ecommendations relayfied vectoring to the wasen and condition of the houses.

Be guiller Ge eral C G Arbuth not, a.s. Inspector General of Royal Art Hery for India

None, provided the commanding officer is authorized to draw green forage and brain instead of a portion of the grain during the hot serson, or it any time that the change may be desirable

L'enterunt Colonel II C Sa sih Sapit Re erve Remount Dopôt Salurunpera This question must have reference to regimental systems only. In the remount department rates of feed vary according to time of your and condution of stock.

Calonel A Drury Agent for Remounts, Cossess Gram rations must depend upon the nature of the forege. Item fills to fills of cold e daily is the villes mee for each here at the depair. We as good forege is not obtainable, more gram must be given, but for the coloural house the quantity and quility of the forege as of more corresponded than any amount of gram.

requence than any amount of grain. I do not recommend any change in the ration.

Major W A Roberts R. A Bo Truescera consider no much for the bot weather, or even in worder mount Agent Collection in the state of the control of the contro

unless the horses are gelting hard work. If think this is a question for officers commanding and actermory surgeons to decide for their own horses

l' F Coll na Esq. Princ pal Vedermary Surgeon Bengal Army A troop here should receive on in average throughout the year five evers of grain duly. The summer ration in time of peace should conest, of four severs of grain only. but during the drill season, or during selve exists, they should receive an evers one lb bran

J H B Haften Esq General Supit., Horse Breeding Operations

In time of peace, I think it would be better to give less grain ration to horses in the summer, and more in the winter, especially during the hard Indian drill times, e g --

In cummer, per horse, per day,seven lbs grain,

In the winter and during drill ecoson,ten lbs grun, two lbs brin

On the line of a arch feld and active service,-

two lbs grain, if procurable, and when the latter is not procurable, and horses are

undergoing hard work, then twelve lbs of grain may be allowed In the summer the green gress rition may be advantageously mere-sed, and if dry gress or buy be at the time a part of the green rition, it should be proportionately decreased in quantity

G Erans Esq Inspecting Veto smary Surgeon 2nd Circle

The present allowance of gram as too much for horses out of work in summer Half as much would do better, or less in many cases Extra bran should be given instead, with as much grass as the boises will est Extra been would not be siways necessary if the grass were

good As a rule, if ten ports of grain are sequend for horses in the drill sesson in winter, five parts would be ample for them when they do no work hardly in summer For, if the mitrogenous elements of food are not consumed by muse that exection, they are either not For it, we descognize concerns to now are now consument by most care carrients, and are selected and dissorted into the cutchiston or the they are until by careful by the shape, so also they cause plethers and diserve. They cannot be stored up on in the system his of the carbonacous or interfering cleaners. Orne, it is been, but to be large a reportion of the interestives elements. No good horseman in Lagrand would feed his houses on beens if he did not give them as much week as

good included in the control of the

In speech cases, when early grun is required for horses in the drill season, the present grun ration abould never the mercessed, it should be reduced, and an extra quantity of some less intergenous grain, such as manyo or onto added

I would recommend two seers of gram, two of maize or of outs, and one of country bran to be given as a standard ration instead of the form seers of gram and one of bran given now. The the great as a manufacture account measures of the found seeds or great man one or ever ingreen flow? Take country lever as more mealy than the Caustrapes or measures but allows about the preference of country and the country of the country lever as the country of the country

from two to at least six drams

W Lamb Esq Inspecting Vete rinary Surgeon Bombay Army

No In this may horses use fed on whitever gram is found to be cheapest, and at the same time suitable at the station they may be atas formstance, gram coolty buley or made. Often in the hot and tile months the gran ration is found to be excessive, but instead of laying down any land and fast rule indusing it, I thind it better to leave them to the discretion of commanding officers and veterinary surgeons

F G Shaw Fee Staff Veters many Surgeon Madras Army

The Madra army regulations already provide for a reduction of 2 lbs of grain during the hot or non-drill serson. As a matter of fact 2 106 of gram duing the lot of non drill serson. As a mutter of inci-duil is not stopped in this surry, and the months when the houses are placed on selected gram ration as the time when gress fulls, and they really require more gram to compensate for the loss of gress. The gram used in Madras, " kolty," is at best in poor food, soft and immutratious

J V G Mans I q Veter, prej Surgeon Remount Depot

The present graus ration, which is, I believe, 10lbs for Australians and Sibs for country houses could certainly not be reduced in the drill cerson, and only in the off season with the greatest caution, as the time of the non drill serven is the hot neather when the grass central is minimum of nutrition, and if my of the grain ration were reduced, the hoises would fall away and be unfit for work when the drill serson

agran came on In some farored stations, where good forego is procurable, the grun ration might possibly with advantage be released fills per into a in the non-dull season, and a proportion of lorin substituted, but this is only practicable in a few stations, and should be left to the describion of the commanding officer and the veterinary surgeon. I do not therefore think, that the present grain ration can be reduced throughout the strains without endangering the welfare of the horses.

12 Have you any suggestions to offer regulding the establishment of grassentters, and the present mode of supplying grass in cantonments, on the march and on service?

Let'ence' General Se S Browne Each, Commanding Let'er D 11: suitable than the present system I do not consider or am aware of any plan that would be more (1211) Appendix IV

Brigul er General C G Arb Cant C.B Inspector-Gen eral of Royal Arbiller, for Indea

are occusionally a source of infection

In my opinion, grass cutters should be abolished, and with them the present mode of supplying grass in customents, on the march and on service

Grass should, in my opinion, he supplied by the commission under all circumstances.

With proper trangements it could be done by that department as cheeply as by grass-cutters.

On active service, grass entires can seldom collect grass—and to obtain it in cantonments and on

the hear of march they must frequently treaps and cut grass on provide property.

The system is not suited to be present state of the country

The lines are unaccessarily crowded by the grass-callers, their families and pomes, and the latter

Loret Cel H. C Sm th Supdt., Reserve Remount Depôt Subsoun This also must refer to regiments

Orlesel A Drury Agent for Bempunis Cossess I have had little or no experience in feeding troop horses in cuntonments, on the march or on service, but I consider the system which

is in force at the depôt is the best suited and most economical for the locality No grass-cutters are kept, but contractors are employed to provide a certain proportion of green grass duly. The present rate is five annay per bundle of 160 lbs. which gives 40 lls. of green grass to each horse at a cost of one anna three pies per diem. This is supplemented by hay grown in the depot paddocks at an average cost of Rs 35 per ton, and by lucerae grown in the depot farm and assued at

a cost of 160 lbs per runce In addition to the amount of hay realized from about 200 acres of grass land, the horses have the advent go of being turned loose to graze in the paddocks on first arrival and when the paddocks are not under cultivation for hav

Major W A. Roberts B.A. Ro mount Agent Calcutta I have not I regard gross cutters as a necessary evil, as they are under present erroumstances indispensable on the march and on service

P F Collins Esq., Principal Voters are Surgion Bengal Army In cantonments grass should be purchased in the open market by regimental arrangements but by indent on the commissional depart

ment by reguments and batteress when first arrange in the country.

On the mech the same arrangements should hold good. And on service in the way found most
affected by the same a rule by purchase is so obtamable it, not by the users in method of appropriation.

The system of purchasing grass in the open market hen of inter when tired, been most successful,

the say by has been shundant and the quality good and the system, when once established and fully developed the feelings of the agriculturests will be satisfied, and it will prevent the anseemly exhau-

tions with gress cutters which are constantly coming to light Should the above system for the supply of grass be adopted, it will at once dispet the chief channel through which contagious diseases are conveyed to troop horses, namely, the grass cutters pomes And this in itself, when we take into consideration the annual loss to Government from the above causes, as of no small consideration

J H. B. Hallen Esq. General merentendent, House Breeding Seperatendont, Operations

The time appears to have arrived, especially in the more settled districts, for grass cutters to be discontinued, and grass, both dry and green, but produced, a the apartment of the continued in the randock decread suitable according to aroundstness.

The commissariat deputiment should as a rule, supply grain and forage in contonments, and, when deemed expedient sanction should be accorded for the commanding officers of cavalry corps and batteries of artillery to make arrange-

excepted for the communing officies of evarity coaps and materies of anisory to make arrunge-ments for the supply of the proving of grass are often too remote to allow of the grass-steer speng druly for the supply consay enaity if by steal grass from the fields of remodars near the contonness, and are frequently brought into court for trayeas and robbery. I am navan it is beheved that grass-suptless are indepensable on field so everse and in operations in an enearly a country, but I would, with deference, submit that writh money grass may be purchased wherever it so deturnible, and if not obsamble, I would also, of what use on the grass-initiars be under such cacumataness? Nagrue, by buying grass at a fair press, in an enearly sountry, much is effected in analy sopring this local inhabitants. Indeed I would carefully bounds that grass cutter are impolaiments in field operations, for, as a rule, they require grants when out straining the grees that would be an inhabitant or counts, better out for, and the many required for precisioning the grees and are imperimental to depend on a positive paid for, and the money required for parchasing the great and would be on political grounds, better paid for, and the money required for parchasing the great and satisfying the inhabitorist would be easily kept under the usual treasury guards and would save much breasung of the rink and file by providing the additional parties required for the protection of grassentters when collecting forage

G Erans Esq Inspecting Voters mary Surgeon, and Grele.

As all the good land near cantonments is farmed out to villagers, our grass cutters eddom get good grass unless they steal it, and the furners very rightly object to letting the grass be taken for Government

horses when they pay runt for it and want at for their own cattle. Our gress-cutters are therefore, throat to cut the grass from the poceets tend, which is deficient in nourselment, and often they cannot get enough of that. But the vullegers were encouraged by fair proces and construct demand, they would always bring in as much as we want of electricaged by that prices and consecut unmand, may would unays sorting in as much as we wanted or good grass. They would bring much more than required in the grass growing easewn, at low rates Extra grass should be got and dried and stacked then for use in the scales eases. The villagers would bring it in for much less than the bear rates. I have known that plan adopted most successfully in a battery when the establishment of grass cutters could not bring in half the required quantity, at the best scason, and the villagers brought in more than was wanted every day for less that half the bazar

(1212) Appendix IV]

The villagers would also bring good grass to camp on the march and on service as readily as they samply anything else for which they are fairly paid.

There ought to be good land reserved at every station to callavate green outs, lucerne, &e , for the

sick horses and the remounts,

W Lamb E q Inspecting Vote many Surgeon Bombay Army

I have long been advocating doing away with grass cutters altogether. At our large stations it is impossible for them to obtain good grass in At our riggs statement it is impossible for the own audition to the real series of them, nearly all the land is under collivation, and if they go into the fields, the owners charge them with toespass, and quarrels and rows never core

owners energy user many many and the state of the state o spent on them would generally suffice to supply the horses in contonments with lucerne or other green grass, currots, and so on On the march they are nearly as bad, and on field service they are a serious encumbrance and generally useless and if there is any grass to be found, the spece can gather it. I succession advantage general season settler and a great many in destablishing then I think our present mode of supplying dry genes as established only I would allow commanding offices and the return of supplying dry genes as established only I would allow commanding offices and the return of supplying on more power for sets only in the set of the sets very lest procurable is ever given to the horses

F G Slav Psq Staff Veten mny Surgeon, Madras Army

The establishment of grass cutters for this army is already reduced 10 per cent when in entonment to admit of a commissanat supply of dry fodder as bedding and hay The great with of this army is regimental "ramus" Waste lands abound in the vieinity

army is regumental "ramuse" Waste lands abound in the vicinity made over to copie and devery candoments, which could be emclosed at very little cost and made over to copie and latteres. Station or regimental runnes, under proper management, should be carried of supplying the whole force for a regiment or lattery in customers of womant grass cetter could writ ease cut gives enough for two horses, besides leaving some on the ground to be contexted into by but the forage uniter these outcomes should be cauted into canonics, and the women allowed to be et, or near, the runnes. I than, if this plan could be properly world out, a saving of 50 per cent would be effected. On the line of much and on service the full consultants of crysts suffers should be worked. full complement of grass cutters should be made up

J V G Adams Esq Vetermory Surgeon Remount Depth, Occoor

I can suggest no thorough change in the system of grass entiers. In cantonment the system of grass contractors might be substituted for the present system of grass cutters kept up as an establishment. This would ensure the horses being supplied with a due amount of the best grass procurable. This system would of course be impracticable on the murch or on service and, unless the commissarint department could supply forage, I can suggest no general alteration from the present system.

13 Should the grass cutters be single or double?

Launt, Genl S r S Browne E c.s., Coundy Labore Druggen,

Grass cutters should be double

Additional versarks

In conclusion, I would add, the Government are taking measures to improve the breed, but the expense and trouble new lay shed on house I reeding will in my opinion, be thrown away unless measures are taken to ensure good country bred remounts entering the ranks, which, however, will not be unless

they are purchased young

I xperience has shoun, and the fact is patent your by year, that excellent and most promising young stock are exhibited as yearlings and two year olds. After that age they deteriorate and show young sich, are exhibited is yeulings and two year olds. After this age they determined and show segus of uncoundness and mellocimation covered by the Native custom of hobbings and them gleen mellocimation and feeting them on heriting and fattering, food. They do this not only as a unstoon broaded down to them, but because also they have not the means of allowing them liberty, and their aversion to enstration

Remount agents never will be able to purchase country breds of a mature age suitable for the service, in con equence of their being stanted, multivated and diseased from the mant of liberty essential to the development of bone action and soundness

It only remains, therefore, to purchese young steek, I cep them in rons, with an inexpensive stablishment, from which, as four-jeer olds, they would be durified for issue to the trusy. Since the to no aw spraned, an trache under "Horse Bearing, and Horse Paur" has appeared in the Caula ad Mil far; Ge atte of the 23rd instant. As it bears much on the points advocated by me, I have no hesitation in attaching it

"HORSE-BRETDING AND HORSE TAIRS"

[From a Correspondent]

Your artiale on horse-bre ding and horse fairs induces me to make a few remarks, which, although materally differing from the views you have formed, may possibly assist you in discovering the true cave of failure noticed, or, if not my musto discussion on a subject of much interest to many of your review. There is no doubt that if the Antice breeders could be passeded to rest their young stack on the hierty of early, we should have assessment and be transition in the country hoods, but it it possible for breeders to adopt such a course? There are not forest or waste lands attached to all

villages where stock could run loose and find sufficient grazing. But allowing that land could be spared Writing the where votes count was now when any successing grazing for first the purpose, usual that exercise the described here; a skeep, or the proper management and feedings of stock? Never for on returning at anoth to their owners buts the unfortured nameds would be to their probabilities of a small covery and most black; alongsade of ballocks where they would have to remain till morning. When would of yes the they awould be kept in a dark place be well elisted to remain till morning. reman tril morning. When writed for sile they noted to kept in a dark place be will echicle to be assume producing 2, glosty code, and be fed out of all or metallian via other unwholvenes food. All the adven in the world will not charge? I have a deep. Regarding the poor show of gold ngs, it is easily explored. Emanifements a fed out to accounting them to cattent the needed, has nothing whatever to say to the fritten, which was to be expected. Astron. Sive a few reasons are the contribution of the con is the provided to personn are operation group, may be one or to all a monarm same party of the show of geddings, or may set asserts a stributible, to pertude and not to any wat of encourage, mean? The tumedry you suggest namely a tax on entires would not only do no good tait postive hates, by forcing many to drop honoring dispetcher, and I hope flowerments will not discuss on the provided of the postive provided the provided of the provided big such a VX. VIXES are of marciae. Jina 4 conservat matter in legislate and other constants when browders have the means and intelligence to see that it they was in compute successfully, they must just then shoulder to the a heal. He is tue than a difficult matter to find animeris meeting recoming. Have not theoremain or process been given any to cancurage it. White to be hosel better stock, and what has languaged. ** Matters will be Netteres and as long as they get 4-time it is not all locky mains, they are contain and no efficient generally statished that their screamers are not apand mixey. Themas, away are centered and no cause ground sourcess constant sections of con-presented by committees. Hardestends the will never que ve to Lingbell once Autous froquenting fairs and shows to compete for purse may use the latter whilst the sinks are prevent, to pieces and make them below that further actions has been followed, but the moment they are out of ugins the brilles will be changed. But stay are all these monoutoons required? In former years there were no No inducements were held out to castrate colts. Rons were not dreumi of. Nature bits prizes given parses great. No managements were held out to extends only a Management were not determined. No extends the other wars better boxes, and more of them presently set in soit half the present realing rates. The true and only remedy as for Government to parchase young stock, as formerly and rave
them at depths with mass stateded. The best thing would be to return to the old study stepser, which
was a perfect faces, but had as it was, it was smontely support to the present one whole the Government muck to believe we perfective, and which has in revelle done, a wat amount of harm. More
short of purchasing young stock, will do any good. Hundreds will be forthcoming when breeders find
these are natural mount for these works of the contraction. there is a certain market for their produce. It is true the Government have every reason to fear name is a certain matter in tells pointed in 18 attent and ordinates are every received the careful statements of the way the money this at tensoral depicts, that there is no reason why returns depicts should be expensive. The first else hole feel or in a proposal on expensived has do make processes of else. The press to be perfished according to age and quality. If this course is adopted, it will be found the more economical but apprises an experience made to make purchased actors.

In the prizes to see and quality. If this sources is adopted, it will be found the mace contourned but Government must make on the hierty system being canned out, and not allow that a reasong depict must necessarily prove expensive. They have an officer in the remount department enumently well miss preservant seed a depili, produces young attack and next time to encounts object another sentinger, we may be a depili, produces young attack and next time properly time the next time properly depile to the second time of the next time properly and the next time of the next time. Senting the time of the time of the next time of time of the next time of time o differently in may dispet to the account own y manded in predict to the first two conveniences should know that he is not only a skillal velection y surgeon but a good pulge of stock and a thoroughly practical horse breader—a man whose opinion may be safely accepted on all matters connected with horses

mercer in the servers

"The report on the Rawel Ends horse fur is I see, the usual style of thing that has been going
on for years—an numer marked improvement. This time it is the quiltly that is so mutted, and
the other little rules, such as a great falling off in members und a weekled-show of goldings, are
most entrifactionly emphased, but allow me to seant that on important omnsoon as up arent in the
committees report. Nor that for the guidance of breeders of multes have been franced and, so it
is impossible to breed a multi-successfully without being tidd how to manage it, I beg to supplement

the report with the following -

"Some popple may langh and cell mos a fool. To challenge on tales foot breing a suite, But never most that the matter may pass loss over the breist matter may pass loss over the breist matter may pass loss over the breist matter matter matter. The dean to relect's one det measured many, Readight founds if the Rawall Floral for And when you've panied them muchly degether, I know you'ff lay y'll a weight jeve, II it be bound, A mids mains to code, prefettly round." A mids mains to code, prefettly round."

Brigid et General C G Arbath not, CB Juspector General of Royal Art Mery for Ludia Leut, Col H C Sm th Supil Reserve Remonal Deptil Saharan

This also must refer to regiments

Colonel A Drury, Agent for Resonants Oussour

No grass cutters

Mayor W A Roberts R.L., Remount Agent Calcutta,

 I consider single grass criters preferable to double, except on the march

They should be nearly all double, single are it many stations, on account of the distance they have to go for grass, very useless

P F Co n F q Principal Vetcimary Surpose Benga Army

If gras, e tters are to be continued they should be do ble the nones could the be threl for baggage p sposes in case of emerg ney but the should be kept strictly under veter ne; sin tail a pervision Si gl grase there are useless for ser to as they comest generally of women or luif grown lads the are as a tale physically unfit for reg mental requ rements

Ald I onal re arks

In compliance with the last pringral of your lette $\, \infty \,$ 193A $\, d$ ted 19th instant soleting suggest ons upon matter somescal to the office of remount year of the $\, m \, I \,$ ould lendly beg to be also not to refer to the office of remount agent as on the effection, of the officer $\, l \,$ of the that uppo atment re is the fersibility of currying out some of the suggestions contained a the foregoing ans reis

going mis rus.

A remon toget is could as a s e g f o losses a rot ril ruis in a taste of the knowledge of the runs of shes and the hose and is color by a she has been set upon the representation that making he should be on it rund, greate efficiency to the errors and commany to Grors most comb up the d test of smooth regards and director of rung men on operations in one. The drift age of remonstate to the a most be made of the ser are to like they are best studed could then be correct to the interval of the sum of the made of the serve to the time of the sum of the serve to the serve expense of the serve to the state of the serve to the serve the serve that the serve the serve that the serve the serve to the s of assembling allots up committees and rejected remonits sold for being unsuited to any branch of the service should it called the part in goff to past

To ass still further ug the interests of Government du ng the time of p rehase a thorogilly practical t to party suggeon a equited as a milers of ho es pre ented for 1 u el ase are both wild and premient to bury's grown's equived as a more so not be prevented for a class the oblight with the interest lie delying all attempts a time tool too. An effective examination under the above conditions requires a position and numerate the last predicted experience to detect many of the serious causes for each some other or se temporates all his purel sed totally in the for the requirements.

of the se ce

Operat one

JHB Bake Pq General As stated in reply No 1? I believe gross of their so not request free with the same are not never effect set in proceedings and the same are contacted on the process of gr s and these ponces may become useful during field operations for

baga ge pu pases One serious of jection all 1980 s is to 1 m ng grass cotters por es in the new board ood of ntillery 1 len nigr lows here.

the elimics of the illectioning intested all gillors and fix or oth recording one dies see and er sing the spread of any one of the disc sees time get

the too; lo ses A grasse-tier's pony is selden in good est dition indeed generally in a state more or les of debity in it out it serves and being them by his one — her niterally g to it is voert on amongst off, debitated and probably decased animals is very hable to become affected with contagious malad es

G France, E q Inspecting Veters many Sungeons and C ele

See answer to question 19 No grass cutte a recommended The great outies non-exact the most common excess of gladers, &c to the Government horses

Alltotal Renarks

P relas g lorses - W tl fireler reference to reserve or remount horses I woulls ! m t that the great ste real ould be everesce u the p relasing of them. A large proport on of the loss con Us great de real ouid he eve uses it it is prolating of them. A range proport on or two uses consisted the Use races read and let of yearing entering in a total programming the first let it is idlights in commenter of which I as some or very used many forces to the active the one of it, each or life in early of the entering the I and I for one let it the proposity of Go an area to the gift I that it is not to the consistency of the I can be a second or it is not the consistency of the I and I for the I can be a second or it is not the I for the I can be a second or it is not to be compared to the I for the I can be a second or it is not to be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the I can be a second or it is not the I for the

turn o til n does all attery of a tillery

Poles and I is said a parequired to littlet peemt unso indices so much as to prige by the simulative of a ristony and experience. I state delets in conformation are hid by to re like the force until for the so. the price of claims and also what delets in division underso may easi. In the smallest risk of it, ear to feel or in this is underliken to the conformation and the said of the conformation of the conformation and the said of the conformation and the said of the conformation and the said of the conformation and the said of the conformation and the said of the conformation and the said of the conformation and the said of the conformation and the said of the conformation and the said of the conformation and the said of the conformation and the said of the said of the conformation and the said of and not than your to sell file to ette ork seg red of them should be all mys more promuent in the mid of the eternary sugrous the press them in them what tell a cult constitutes an so nd e s

happen sometimes that a ho eas of strictly or legally ound but the veterinary suggest belove that the un o namess aftever tell nonet the usefulnes of the lorse and the an unal is m detect and the modernment in every early in the dependence of the respective properties of the respecti morem it from irrest, system conserting me it system in other ever the from a position of the following the first me and the first me is e.g. peed or the mostly indicated as a small multiple flower. So if it was a first mostly in discretized in the first me is e.g. peed or the mostly indicated but the light layer good as the most indicated by the first me is a first me in a small multiple flower. So if it was a first me in the first me in the first me is a first me in the f

(1215) [Appendix IV

deration by the purchasing officer. The best men are upt to err in judgment, but those who are responsible to Government for passing horses into the resurve should not err in observation.

W Lamb Eq. Inspecting Vote I would have neither many Suppose Bombay Army

Additional Remarks

Reduction of number of houses in regiments of British cavilry.

From the number of men on guard and other dismounted duties, men un hospital, and absentes I believe it is never possible to put a man on the back of each of the 410 horses allowed to a librials creatly regiment in India, now even upon these of them that are not suck, the number of which does not, as a rule exceed 20

Profitchily 30 on more horses remain unbriden. Thuse—hereis that we not world—did very graulty to it is list of evanities meaning with according to evanities meaning by the monostrabilish fershares and contacting discress of the dynative system from wast of the opportunity to work off the hierarch tist key receive. German reserves to full berk upons in case of emergency, the number of horses in these regiments may with advertage is endoned by at least 10 per from or 60 per regiment, and the bases would be jet chorept, obcases on a lover monos, via depts, and being allowed theely also they would take sufficient exerces to prevent that excessive emberones of spirits which reverse excellent and consistent

The same as regards silladai cavalry.

The shore applies with nearly equal faces to Nytive earthy regressers only their is them ask natings in generally taken of the superflavors number of kones still not to by colls too young for us. By this means this prace of the horses appears to be lept how, but it is neally no expenses were yell providing remonate. For instance, a cell bought at two years of age—at I know many are—caused be of any use thill no street, now of much this no so. I workflately, be drawn first 90 per measure, and by the time he is fit to carry a main in a campange, he will have cost fix or aix londed a runes, thus —

Original price, say 2 to 3 yerus, 12 months of uncrined keep at Rs 20 3 to 4 years, 12 months of half corned keep at Rs 10	200 240 120
	560

What grand five year old remounts Native cavalry might buy at that mice?

The agents were yet on the counter events agent or your couls only hermas its labora that agent are yet on the counter of the

100×2×12==	Rs 2,400 6,000
	0.000

per anaum, which, with fewer horses to buy and fewer casualties and fewer had bargains, as only mature-horses would be bought, would enable them to give handsome prices

Purchase of remounts for the Royal artillery and British cavalry

I cannot less this opportunity of pointing out again, as I have often done before the very object toneble method or livipiazed, no method viry no has of laying rememble, s., by committee or suglections selected for the day as committees on the committee or officer a felected for the day is committeed for the committee or officer. So there the importers of horses (especially of Gull horses) not lowing with whom they map have to deed, have no confidence in the navel to not any such case whom the complex of the confidence in the navel to not appear of size of the representations of the complex of the confidence in the navel of the size of the navel to the programment, because the lattic var, from year to year as pulgiment or fasts of trusy varies a regardle fasters with overy parches. This is the occurration which dail others has some most to make the confidence of the native of the confidence of the native of the confidence of the native of the confidence of the native of the confidence of the native of the confidence of the native of the confidence of the native of the confidence of the native of the confidence of the native of the variety of the some of responsibility. He can be judged by results, and the seconds and grans the confidence of the native of the representation of the confidence of the native of the representation of the production of the results of the confidence of the native of the result of the confidence of the native of the result of the native of the confidence of the native of the result of the native of the native of all presents the thirds to a very five years be tall to mount the whole Romeny army, and more too if required on that best and charges, because the most enduring, of all presents for the lattice of the native of the

(1216)

P G Shaw P q Staff Voten

Ten or no double grass cutters exist in flux army, the introduction of double gass cutters (which I presume means a man with a pony would be a move in the right direction

ADDENDA

Memorandum on matters regarding the Renoral Department by Staff Telegraphy Surgeon F G Shaw, Madras Army,-dated 25th Argust 1979

With reference to paragraph 4 of your letter making suggestions for economy, I beg to offer the following Haring served in the remount department for seventeen and a half years part of which time I officiated as remount agent I feel I am competent to offer in opinion on matters regarding it The office of this hment of the remount depôt is unnecessarily large, and could be efficiently conducted by the manager and at most two

Office establishment. Wilters

The establishment of peons might be reduced from six to two. Then duties are purely personalto ritend on the agent and the office the office is Establishment of peons Introduction of concepches is no longer required since the introduction of the control

system They are a rehe of the commissaint depart-Con conel es ment to which the depôt was at one time attached

The extension of the depot area to grow give and by instead of purchasing girss (as now exists) would sive a lot of money. The existing would sive a lot of money from extilement with occusional extra labor, from extilement with occusional extra labor,

when required, is quite empible of working double the area as grass meadous, which when once planted cost little mone; to ever for and keep up. Three outlings are get sently, and the average yield per nee is about 1½ tone at a money or feeding viduo of firm Rs 60 to Rs 70 per ace. There are three sets of hor o banc, stanted with a male apart 10 ered, how as a Chappen con-

ductor and Native staff of chowdries and duffedens, Abelition of one set of lines and reduction of estab &c Supervision could be better conducted if the lishment

houses were more concentrated The duties of remount agent me not heavy. During the seventeen and a half years I am

vetermary surgeon to the depôt, I officiated and conducted the duties of agent and veterinary sur-O to officer at fitteent to conduct the duties of agent and retermany surgeon geon for a period of and off for over four and i-half years in the aggregate. The present meanment remount agent completes his service in January 1881, and I see no reason why the vetering surgeon attacked to the depot could not conduct the

joint duties The expense of I coping up the field hattery at Thayetman is too well known to the president Withdrawal of the horses of the field britter; at Phayet-

of the um; reorganization commission for me to dwell upon. If it is necessary for strategical pin-poses to leep a field battery, then I would suggest rayo Butish Burra the trial of mules. The death rate result of horses at Thryotingo is about 50, which, at its 800 each landed there, represents its 40 000 loss every year.

With reference to the Artice infantry branch of the samy, I have a scheme for a reserve force, but time will not admit of worling it out. My idea An army reserve for India

As one severe for lain after which a sumb term is pointed and the sumb a sumb term in point after which a sumb term in point. At the end of, yet of any five such years the could be department for couplon good, to collected years, that poors, &c. The reserve could be critical on an one or taxen 2 year for shall steer three earlies on half the force at a time. The pulse was end seen pointed when the point would grave complonment to everal thousand effects at turned man, who would be explain of bearing arms in case of emergency or doing garrison duty, as may be

I V G Adams, F q Veter stry Surgeon, Pemount Deput, Occasor

If I understand the question anglet, if it is necessary to have a gress-cutter for each horse or one for every two horses, I would say that there should be a grass cutter for each horse or within a small percentage, as I am confident no grass cutter could be made to bring in grass sufficient for two Australian her es

T.T.

PEPARTMENTAL PROCEDURE

I Give a list showing the subjects dealt with in your department.

Clast 1 1 Willes Commes The f llowing is an outline of the subjects dealt with in this depirtan General Bengal ment -

C tile-That the complement of on h I md and for each purpose is lept within or up to scale, perelases of eleptants bulled s, nules, Se to replace deficiencies are with rived, and an ingenieris made for the provision of lired councils, also for the provision of all necessary supplies in food (1217) Appendix IV

comments for all Government cattle All suggestions relating to the feed and care of cattle are equipments for all other one can be soon pulgraement randing to see that has come or cantille the considered and disposed of either on his own judgment or, where expense is involved, in consultation with the Controller of Ministry Accounts or Government

Abodd is—The proposals of the superintendent of I hedden Dacen and Assum as to the locali-

ties in which each season's field operations should be carried on are considered and submitted for the approvil of Government. At the close of each season a report is submitted to Government on the result of the operations All suggestions relating to the working of the kheildas are considered and dealt with

Bissar farm -The working of the farm is supervised and commented on in his annual administration report

Alo sadic column establishment — All orders of Government, mercasing or decreasing the strength of columns are given effect to departmentally, by the critic and establishment authorized for them being proportionately me used or reduced. The proper employment of the establishment duming the summer and the nurshing senson with troops is seen to the third they are, is for a possible, complete and up to scale. All suggestions for the better control, &o, are considered and designation.

Co tracts -All tenders received for the provision of supplies of all kinds required by the department thether as intions bedding barrack miscellineous a ticles for effective men diet uticles, cloth must visualize a visualize contains contain the experiments a visualize of reflective their out visualizes, deciding possibility and possibility of the visualized considered and decided on. These tenders are matted and retented by divisional excentitie commissional disconsistent periods und, fifty their glabelated in forms preserved a substitute of the in the deputy commissivity general and by the latter through the examiner of commissions recommissions. to the commissary general each officer recording in the form I is opinion on the rates officed. With the variety in detrike the supplies require), these tenders are very innecess for the more interest of Government are obtained before tenders are invited, and these tenders are other submitted to Government or the control of the co necess ted subject to approval by Government O1 the failure of accepted tenderers on of contractors to act up to their tenders on contracts the mode in which the continued supply of inticles should be effected is considered and orders resuch. The attempts of contractors to evade the performance of their contracts have to be checked, and the misunderstridings or differences between contractors and the department have to be settled in cases where leg I points are involved in consultation with the solucitor to Government. After tenders have been recepted and deeds been executed lasts of contracts, showing the rate of each article for which a tender has been accepted, the period of the contract, &c.,

storing the rise of each winds for which at table has been recepted use p is not or the contract, b, c, have to be finanshed to the recentle department for tag mu ince n the and to the secontract personnel of the recent personnel personnel of the recent personnel of the recent personnel of the recent personnel of the recent personnel of the recent personnel personnel of the recent person ment with respect thereto and the result of any appeal made by the department. Calls are made for explanation from executive commissariat officers on any remarks in sanitary or other rejects by medical or military officers to army head quarters of the quality of rations. For the control of the expense in the supply of bread and ment monthly statements are received from the deputy commissures general showing the cost at which each article has been provided at each station and noting the causes of any fluctuations in cost between current and past month. As connected with the foodthe cruss of vary functionizons in code between current and post month. As connected with the food-supply of the frozopt the appearance of equipmen or other scalences umong earlier and skep in stock, is varied and earlier of the stock of the stock of the stock of the stock of the stock of the departmentable connected with the supply of processoms are unconfered and chapse of of either properties and the stock of the stock of the stock of the stock of the stock of the connected in this equation of the stock of the stock of the stock of the stock of the stock of the stock of the Processory Relate frozen with the stock of the stock of the stock of the stock of the Processory Relate frozen with the stock of the stock of the stock of the stock of the Processory Relate frozen with the stock of the stock of the stock of the stock of the Processory Relate frozen with the stock of the stock of the stock of the stock of the Processory Relate frozen with the stock of the stoc

Buildings -- In view to the proper supply of bread and meat by departmental agency application is made for the provision by the department public worls to the extent of the f and that in , f om remote the provision by the department plants with a first to year be variable of the error to year be variable of the error to year be variable on the error to year be variable of the error to year be varieties for source t and non commissioned otherers, any be required. A statement showing ill buildings required, arranged in the older of urgency, is farmshed yearly to the inspector general of military works. Separate applications are made for buildings not included in this statement int which are found to be urgently required. Requiremently be listing; not rectasted in this selection if it is high vire found to be urgestly required. Requirement of the department on the department of the department on the department of the department on the department of the department on the department of the departm

for the protection of stores with European troops marching or for the accommodation of Lanopean subord nates a th the troops are examined, so intersigned, and forwarded to the inspector general of ordninee and inagazines for canction to compliance

de a(t) = A lugger estimate comparing SS databed statements in forms but down by the recommended primoni, showing the probable momentary regurements of the department for each small of service, at eller p_1 and p_2 are commented to the probable forms of officers of the service, at eller p_1 and p_2 are the service, at eller p_2 and p_3 are the service and the service p_3 and p_4 are the service p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 and p_4 are the service p_4 a estal by ments subordinate establishments) or a fixed empity of proxis ones to men or eathle or connected with such apply) during the enuning year is a submitted to the controller of military accounts by the middle of November in each year. In the middle of February of each year assignments to executive commissional officers are obtained from the recount department on the several treasuries on which

ther will need to draw cheques for their expenses. On the assignment in an executive for any month and an active of the compact of the proper and panetures to the committee of the month. Here there is to reconsting of expenditure, forms in a link accounts in rendered, roughes by a link changes should be supported for the proper and panetured submission of accounts for the construction of Government orders and rulings on extenditure are considered and settled in communication with the controller of military accounts and Government

Stores -The retention in the godowns of the department at the several stations occupied by European troops of sufficient stocks of victualling and ho pital stores such is grocules for men in health, of Lerosine oil disinfectints unumal chargoal for use in huracks, and of dicting articles, clothing, bedding and comforts for sick men, of equipments for use with troops muching &c , &c , them is received from each executive officer. For such as its not procurable in this country, or which it is considered desirable or advisable to obtain from England, indents, in prescribed forms and with full explinations of the necessity for each requirement and the seale on which it is calculated, have to be submitted on certain fixed dates through the centroller of military accounts. The stores intherio obtuned from Lagland are malt liquor, blantets, duck cloth and sheeting for use in barricks and liespitals burners channers, and weeks for use with kerosine lamps in barrieds and hospitals disinfect-ants (callule and and McDougall's powder), amond charcoal for use in filters, also such other miscellineous articles as are found necessary for the flow mills and see machines in charge of the department

Losses of wores - Losses by dringe, wastage, accidents, theft, and frand, and condemnation of rum and malt liquor and all stores of alueb stores are l'eft, a bether occurring in godoun or in converance from one station to mother, lare to be sentimized. Statements of all such losses are submitted either periodically or as they occur for sanction to deputy commissing general or commis-sing general, and laif yearly statements of all such sanctioned losses are submitted to Government, and in them the losses during the bull year are contacted with those in the corresponding period of

and it could be been so the second and the precision of the precision build, early and explanations given of any variations.

Ideal farinated—The requirements of the medical department for the supply to hospitals of all sentenced statules have to be provided for, and explanations called for and considered, or any reposts by medical officers of defective arrangements by the commissaired department. Matters affecting the relations of the medical and commissariat department have also to be settled in consultation with the surgeons general British and Indian services

Burnel depart is it - So also provision is made for the supply of the several articles authorized for use in bring s, and points affecting such simply are estiled with the quarter mister general

Perco rel of the department— ill vicinicus in the establishment of commissioned officers me

brought to notice of Government in view to their being filled up. Promotion schedules are submitted to Government for filling various in the warrant establishment, and pillientions are made to the adjutant general for men to fill vacancies in the non-commissioned officers establishment. The training of officer appointed on probation is seen to und the disposition of all these classes to stations or duties has to be supervised. Applications from these classes to fullogal have to be considered and submitted for sandown Guistions dicking departmentally my need stelled in communication with the consideration of the consid troller of military recounts or by reference to Government

Office establishment - The working of office establishment is supervised and steps (a) en for morgan-19th, such establishments as are found to require meterse of to be susceptible of reduction, or which can be strongthened or improved by transfers from one office to another. Applications for temporary resistance when such is found neces ary from any pressure are considered, and either sanctioned or

submitted for a nation

Subordinate establishment -The strength of the extensive subordinate establishment of agents and others maintained for the various duties which devolve on the department is regulated, and all matters affecting them are settled

Mit illance is —A great variety of miscellaneous work is ", proportion of periodical returns and correspondence, is also done besides the routine west of the office such as record i equal, &c

Derit of pread — This is conducted entirely by the commuscing general or the officer ittached to his office is its issistant, and the correspondence embraces for the most part communications on ill the subjects above noted

Major-Coneral Voj er Campbell Of a are la peet of cral of Order on d M or o B agri The subjects doubt with in the ordnance office may be classified under the following heads -

_			Strict headings			
C1 1°S HEADT\GS		Major	Mmor	Sub miner		
Account Accidents Agencies and fuctories Atministric At this and depots	•		Arsenal and depôts Explosions Lort Fost William	Laboratories . Gualior Limi or-yard	Agın depût Shot and shell	
Buildings Ditto			Departmental With irs	Assenil Quitters D pot Re_unchial maga-	Warrant office	
Contra «				/IIILS		

1				
Subject headings				
Major	on IF	S b minor		
Artillery	O dance	Gun carriages		
		Small arms Ha ne s and sad		
Cavalry Bratish	Personal	dlery Accoutrements		
Cavalry Nui ve		Saddlery Do		
Infantry British	Personal	Small arms		
Intentry Native		Do Tools		
Departmental	Do	Accoutrements		
General	Camp equ page	0 7		
		Small arms Arms		
British troops	General	111111111111111111111111111111111111111		
Native troops European	Comm as oned	Appo niments Promotions Transfers Leave Pay		
	(Warrant officers	Pens ons Uniform Deaths		
Luropean	stoned officers Armourers Eng neers and	Appointments		
Nat e	Ext 2	Do.		
Gen tal	Europe n and Nat ve Cordrence	Family pensions		
Office	Agencies and factor es Az enals	Appointments		
Estublishments	Ordnance depart-	ľ		
Storm	ment	No I		
Budget	Do	200 1		
Pescryat on of	Departments	Tuze and ponder		
Monthly	Ordnance depart-	Fort Wilh m		
Captures	Arms	Local, and Af		
B rmck Office Arsenals	Trestles and plunks Ordnance			
factories Dejuts Departments				
Lurope stores				
Depa imental		Fort Will am		
Coal nd coke Dem mage Thefts Agences and	V-2			
factor es At enal and depôts Gene al	Fire engines.			
	Artillery Do Do Do Cavalry Brussh Do to Do The Cavalry Brussh Do tav The Cavalry Maries Interpore The The The The The The The The The Th	Artillery Do Unruce Per onal Horse Cavalry British De Horse Do Infantry Parts Personal Horse Do Infantry Parts Personal Horse Do Infantry Parts Personal Horse Do Indinatry Native Horse Do Indinatry Native Horse Do Indinatry Native Horse Do Indinatry Native Horse Do Indinatry Native Horse Do Indinatry Native Horse Do Indinatry Native Horse Do Indinatry Indianatr		

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C			SUBJECT HEADINGS	
CLAS HEADINGS		Major	Mmor	Sub mmer
Musters		Agencies and Fac	Cawnpore	Washers, leather, for plug shell
Miscellaneous Native States			Issues	Armstrong gun
Official correspondence .	:	Postage (Monthly Powder Proof	Advances Work	
Reports	•	Examination Special Amanal Stock	Gunpowder Conversion Friction tubes	i
		Bi monthly Half yearly	Europe stores Warrant and non commissioned officers Powder	
		Montily Quaterly Do	Bulance Cump equipage Humess and sad diery	
Returns	•	Half yearly Monthly Half yearly Monthly Stores for trans for	Ordinance and curages Surveys Ordinance and arms, Bombay Powder	Fulta
		Anund .	Cast aron	
		Do	Cuppowder	Pulta (Native establis
			Descriptive	ments Noncommi sioned officer
Rolls		Annual		Native establis
		Monthly Annual	Muster Non commissioned officers	ments
Sales		Austion (Lurope supply	Barrick dept	Condemned store
Store=		Departmental manufacture.		
Transports		{Land Nater	Railway Punjib ficialli	}

The subjects dealt with by the ordinance department comprise all matters both as regards jeras solved out and the description of the descriptio

e con Control J H Aer Inne-ller sh Mclocal D partiment and Pri c pul Mel cal Offic , Brit sh here s n Indas

Medical Administration Discipline

Imance and economy

Ho ptal supplies equipment, and establishments
Medical officers—Appointments, postings, leave, transfer, relief, &c
Subordinate medical department—Ditto
ditto

Parseyors' department
Invaliding—Officers and men
Insunc.—Ditto

Tield service arrangements Returns and reports

Sar etary

General sanifation and hygiene -Stations and corps Cantonments and on the march. Tield savice Hill depôts and convilescents Infections diseases Cholera and entene fever Small pox and vaccanation Venereal disease and lock hospitals Inspections

Sistestreal

Annual, monthly, weekly, and daily returns and reports of the British army in Bengal command to the authorities in India and England

Supply, asse, printing of blank forms, books, &c , to the many

No 635B . dated Camp Labore, 22nd January 1879

From-The Surgeon General, Her Majesty's British Forces in India, To-The Sceretary to the Government of India, Military Deputament

Returns and reports

In complumes with your letter, "Establishments—Departmental," No 7508 of the 22nd October last, requesting to be furnished with information as to the character of the work done by the surgeon-general as lead of the British models department, I have the honte to scientife the following general

statement (1) It is the duty of the surgeon general to advise the Government of India, the Communder-in-Chief, and the various departments concerned on all matters of a medical, sanitary and hygienic nature affecting the British twops, then quatters and surroundings in times of peace and war, and to propose such measures as may seem describe, as well as to furnish the prescribed periodical returns and reports on the health of the temper-numeni, proteinly, monthly, and weakly,—and such spoon medical and statistical returns and reports as cucumstances may reader necessary or the authorities require. He is also required to transic information, and state his opanions on points of discipline and finance affecting officers of the British medical department

(2) The surgeon general is also required to Leep his immediate departmental superior the director general, rumy medical department at the War Office, duly informed on all important occurrences bearing on the subjects above referred to, as well as on matters directly connected with the officers of the department under his supervision and submets medical, sanitary, and statistical returns

and reports, periodical and special, in accordance with regulations

(3) Deputmentally, the surgeon general supervises the postassional, saintary, and statistical dities of his sabutdandes, with a true to the due cutying out of crusting orders and regulations, and countries all unregionaries for the destribution and all internet of naciety different and subordandes. attached to the British army to the various duties, regimental, station, &c, appertaming to the department

(4) Finally, with the view of sviislying houself as to the candary condition and requirements of the troops that these are duly attended to, and that the duties devolving on officers of the department are conducted in a propen manner, as also to equant humself as to the personal conduct and qualifications of his departmental subsidiances the surgeon general annually undertales a tour of inspection, the results of which are reported in due course to the Communder in Chief and the director-general, army medical department. Special inspections, of particular corps and stations are also made when particular encumstances render such necessary

Surgeon General J. P. Bentson Indian Medical Serv co Bengai

The administration of the Bengal medical service, the supply manuferance, and control of all the retablishments, both superior and subrad and the equipment of hospitals; it is unjuly of recliences the supervision of medical dopolis recommendations touching medical

supervision or memoric upons recommendations (conting memoric upon fractions) and the army, and all re paring special qualif cations the responsible control of medical sobools, where there exists a dres of minitary bossistic upon the review of all qualifying examinations in all grades, from commissioned surgeous to sur geon majors down to hospital assistants' knowledge of English, special control over the army medical administrative service, Indian branch the adjustment of subordinate hospital establishments under the several provinced enal governments by transfer of men for the multivry brench the economic distribution of surgical instruments and drugs, the responsible advise of the Indian service as regards its medical fitness and usefulness on a comprign, and in adviser to the Imperial Government on each and every subject apperiancing to the medical profession which ments a more than local interest and expenditure

Dr. J. M. Canagha a Santary Commissioner with the Government

All matters connected with the health of troops both Furopern and Nature, presoners and the general population. In addition, many medical questions of a civil nature are referred for opinion by the Government of India in the Home, Revenue and Agricultural Department

Colonel T B Harrison Controller of Mil tary Accounts Bergal

(a) The control of army and murice expenditure
(b) The preparation of the annual military budgets and each require

ment estimates for Bengal, and the marine estimates The annual statements

(d) All matters relating to military and marine accounts (e) Reports on the revision of army and marine establishments

- (1222) (f) Reports on questions I curing on finance in connection with the commissionate, remount, cloth ing ordnance, medical, and manne departments
 - Reports on and disposal of all claims to multary and marine pen ion

(a) Reports on que tions relating to pay, and interpretation of the pay rules, &c
(1) Disposal of all questions referred by the several sudit and pay offices

(1) Despersion and economic research of the event matter and the (1) Carrying out all orders relating to pay and tradit (6) Audit of try, pension, prize, and earnings buth, recounts (1) Audit of all commissariat expenditure, including transport, and of remount charges

(ii) Audit of medical accounts

(n) Audit of ordernace and clothing recounts (p) Audit of fund recounts (p) Payment of pay and pensions

Major O R. Newmarch Account-t General Mil ture Departme 1 All the subjects dealt with in the Military Department, which are as

follows -Appointments Disturbances Intelligence Returns Indents Revaids Defences Army List Regimentalinstitutions Judicial Discipline Account department Recruiting Distribution of army Lene Accounts Marme Reports Drill and instruction Ardnances Rewards, Native army Discharg s Military department Agriculturd Estimates Medical Service Armaments Military buildings Educational Staff cor Arms Savings bank Maps Engineers Artillery Appointments (Native Ecclesinstical Medals Special Simitary Equipment Miscellaneous umy) Native languages Staff college. Tstablishments Asylums. Burnel department Labilitions Organization Ordnance Schools Survey deputment Books Luquines Estates (Native army) Promotions Surrey prities Crsurlties **Furlough** Pay and allowances Salutes Commands Pry code for India Field operations. Stores Camps Funds Prize Transport Cantonments Guards Prisoners Unattached list Complemts Vetermary department Commissanat Honorry distinctions Pensions Volunteer corps Horses Quarters Clothing Correspondence Retirements Warrant officers Inspections

Also all correspondence with the controllers of the three presidences and the compticilia general on the embed of secounts, and the requirement of the mintary and marmo budget and each requirement estimatio—leaping the pry solic corrected to date ready for revised edition. Also the consolidated accounts current with London and connected correspondence

Women and children

Colonel B Walton Super ntend ont and Agent Army Glothing

The munufacture of clothing for the army in the presidency of Bengal in all its bianches, under which the following may be noted ---

I -Indents for clothing stores on Fugland II -Indents for necessures on England

III -The conversion of the clothing stores into made garments, or

IN -The issue of materials to corps 1 -The assue of ready made stems (as received from England) to corps, such as spars, gloves, boots, siches, moollon soels, and jersejs for gymnasia, &c , &c

VI —The us to of necessaries

111—The rease of necessary and colouing and nationals on payment
111—The rease of hospital colouing to the commissant
111—The process of stores locally, such as packing materials and other miscellaneous items
The former are parehased charper than imported attacks the latter only when imported articles

fall short or for sj etail local resues

— The land ug and despatching of multivry stores, the property of regiments—late the duty of the military storel eeper

Colo 11 k Comper D rector of true Penou. ! Operations

Purchase of remounts in Calcuta and the districts, transfer of remounts to the depôts care of remounts whilst at the depôts, transfer of remounts to regiments and butteries

J R B Briller F q C norsi Open one

The following are the subjects dealt with in this department — (a) The majecting and brinding of approved mares with the sine tion of their ouners, for breeding purposes in the North Western Pro-

vine s and Punjab, also the inspection of stock in Rapputana
(b) The allotting of branded mares to be served by the classes of allians best a uted for them

(c) The supply of Government stallions sufficient in number to meet the requirements of the ire ling districts

(d) The weeding of s'illions considered unit from old ago or other cuses, and obtaining, offer

(d) when he and classes remained to make up the to importation from Lordand or purchase in India, of the number and classes required to make up the

e tetra red e my lement re 300 (c) Br and ag with the letter D pany marcs, or marcs considered unfit for horse breeding, for the lead no of mule

Γ Apnendix IV. (1223)

(f) Purchasing of donkey stulious from Arabia, Bokhvin Panjab, &c., in sufficient numbers to serve mares for mule-breeding, also the providing of some donkey sires for the Madris presidency (g) Receiving of monthly accounts of stallions in districts from each officer or other nerson in

charge of Government stallions

(8) Submitting monthly recounts to the comptroller general, treasury accounts hunch, Calcutta, in abstract and detailed forms (3) Attending the several metropolitan horse-fairs and district horse shows in the North-Western Provinces, Punjab, and Ramutana to under of the quality of stock produced by Government stellhous as

exhibited (j) Instructing Natives at the veterinary schools at Hapur, as salutries and custeators, and supplying the several breeding districts with this class of qualified men, in order to afford the opportunity to owners of colts to get their stock castrated and treated gratis

(i) Reporting on stud documents received by the Government of India from the Bemboy pre-

(m) Inspection of bulls and rams of the Hissar cattle form distributed in districts for improving

(a) Inspection of horses of the Punjab Frontier Force with regard to fitness, condition, samilary

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endency
     (b) Reporting on subjects in connection with the prevalence and prevention of glanders, farcy,
anthrax cattle-diseases, &c &c, and advising sanitary measures connected therew th
the breed of cattle
arrangements &c
  Major General S r P S Lame
                                   The following are the subjects dealt with in this department -
         osı Advatant-Gen
                                                DEPUTY ADJUTANT GENERAL
east in Ind a
                               No I Branch - Distribution lest of work, 1st January 1878
     Army Last
          (Correcting sleets received from Military Department)
     Adjustrat-General's Department
(Officers)—Includes divisional appointments
          (Establishment)-Rvery question connected with the office
     Arraval reports
         (Officers only )
     Camp of exercise
     Contonment and contonment magnetrates
          (Matters referred by quarter master general or other authority, acting appointments of can
              tonment megistrates, and general questions }
     Claims (agransi officers)
(Includes claims for taxes forwarded through the home authorities—such as involve questions
              of discipline will be recorded under "Clums-Discipline
          Clums by warrant officers and soldiers will be recorded under the direct heading, and be
              treated by proper brunch )
     Colonel's allowand
          (Questions of promotion are sometimes involved in this heading )
     Commends
         Bugade
         District
         Distrional
          Forts
         Station
          (Regimental, to be recorded under " Regimental Appointments.")
     Commissions
          (European and Natave)
     Confident al reports, Officers
          (Annual, from regiments of Native cuvilry and infantr
         Annual on all staff officers of the Indian army from divisions districts, and departments)
     Courts Civil
          (General questions)
     Counts of requests
    (General questions Claums against officers to be recorded as per heading "Claims")
Discipline, officers (European)
         Courts of mounty
         Courts martial
         (Introduction of yearly articles of war, and issue of warrants for holding courts martial)
    Field operations
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(All questions) Toris

Frontica raids and expeditions

Honorary distinctions (Including Orders of the Bath and Star of India , applications from regiments to adopt mottoes, &c)

Judge A lyonate General's department As positiments Examinations for the department Organization

(Officers only) Legal (General questions)

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( 1224 )
Appendix IV ]
  Officers (European)
       Doing duty
       Luquines
```

Pension (Includes family pension) Promotion

Residence Service

Unemployed (Memorials and appeals to go under subject headings)

Order of British India (Including death reports of members of the Order)
Order of Ment

Rank and precedence (Officers only)

Records of officers (Including preparation of statements of service of all Indian army officers)

Regimental appointments (Includes the command of Native corps, and all appointments in both European and Native regiments)

Returement and retirement bonus.

(European officers) Staff corps

All questions, including exchange of officers from staff corps to British regiments and fine seres

Staff officers Aides de-camp (including "Examinations")

Assistant adjutant-generals

Brigide majors Garrison instruction

Miscellaneous (This provides for wants of civil departments)

Station staff

Special work in No I Branch not shown by distribution list

Half-yearly returns of unemployed officers of the Bengal staff corps and local service in Indu

Half-yearly distribution returns of all officers of staff corps and local service

(The above four returns are complete for Government and Secretary of State, copies are also sent to the military secretaries to the Viceroy and Communicar in Cinef) Annual confidental reports on stall officers of the Ludian army Compiled for Government

and Secretary of State Nominal Indexes to G O C C, Gazette of India, and the Local Government Gazettes,

regrading officers only Officers bool -In this are entered notes of cases of "Discipline" affecting an officer's conduct Schedules of applications for staff appointments, general, divisional, bugade, and regimental

Schedule of staff corps probationers

Arraral and dejarture report book, entries in—when reports are made by letters Register of all retirement applications

1st Assistant Additiont General

No II Branch - Distribution list of worl, 1st January 1878.

Abl aree (Sale of liquor in crintonments)

Bands and me es

(Antive regiments)
Cholers—(Q M G)

Clothing, Native

(The clothing and necessaries of Native soldiers)

Compensation

De une s of provisions (Claims for compensation on any other account [except lesses] are to be dealt with under their direct headings by the branch concerned.)

Losses (All matters relating to compensation for losses to be treated under this head.) Corres ondence

(Mode of conducting official correspondence)

Discipline, A tive-(Officers and soldiers)

Ceurls of mquiry Courte martial

Courte martial returns Descriera

Discharge and dismissal Ecclemastreal

(Reque to for el splans of all persuacions, establishments, pay, &c) Reference about burn ils and cemeteries-(Qr Mr Genl)

Гиппес Advances.

Batta 7 und

Income or license tax.

(1225)

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Pay and alloweness of officer-
     Prize money
     Remittances
     Retrenchments
     Fravelluc expenses
    Working pay
    Wound pensions and gratuities
Forage and fodder
Horses-(British cavalry)
Hospitals
Huiting—(Q M G)
Insanes, Native
Inspections Native *
     (Annual confidential reports on Native cavalry and infantry)
Invalid and invaliding, Native
Lane gear
Medals
    Humane Somety
    Victoria Cross
     (Good conduct medals are to be dealt with under "good conduct rewards")
Medical Department-Officers
     (Including appointment and posting, &c Confidential reports on British officers)
Medical Department-Subordinat
    Discipline, leave, pay, records, &c
Native army
     Augmentation
     Direct commissions
     Disbradment
     Furlough
     Natave adoutants
     Organization
    Promotion
     Recruiting-(General Individual Recruiting parties)
     Reduction
    Rewards
     Standing orders
    Resignation of Native officers
Native lang tages
Orderhes
Pensions Natave
     (This includes family pensions)
Petitions, Native
     (If the potation is on any subject for which there is a direct heading, it is to be recorded
         accordingly, and be treated by the branch concerned)
Postal Department
(Franking postage &c.)
Records
    (Of Native soldiers, Native regiments, and staff offices generally )
Re enrolment
    (Native soldiers )
Saddlery and harness
Salutes.
Sanitary-(Q M G)
Special
    (Papers on matters of a muscellaneous nature, for which there is no direct heading )
Syces and grass-cutters
Transfers Natave
Working parties
Uncoven mie i service
Veternany department
(General questions)
     Voter nary surgeous
    Farr ers and sloeing smiths
    I'mner's forges
```

Special worl in No II Brauch not alown by dist ibution bil

Yearly return of officers who have passed the honor or high profesency tests in Arabic and Persian, forwarded to Government on the 1st September

Yearly refune of owing the number of remonate required to complete British entainty segments on 14 October—forwarded to director of army remount operations

Learly revision of orders connected with rehef of troops

Norm —Abstracts and remarks on all confidential reports not to be submarked to the adjutant-general through the
depty adjutant general. When quest one was out of confidential reports on subjects of each with in other branches
extracts are to be transferred to the functions consumed for action.

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DEPUT ASSETANT ADJUGANT GENERAL.
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No III Brin.h - Distribution list of work, 1st January 1878

Baggage-(Q U G) Books

(Supply of all regulation and drill books, religious books, and army lists) Camp equipage—(Q M G)

Canteens Carrage-(Q M G)

Cattle

Com rleseent depôts

(Includes command and staff appointments, inspection reports, and all other matters relating to such denots)

Cooks and cooking

(Luropean and Native)

Courts of inquest Death reports

Discharges, Laropean Drifts and detachments

Diffects and credits (Including committees of adjustment)

Enquiries soldiers

Establishments

Field parl a

British regunents Nature, e.e., Nature establishments of European and Nature regiments-(Q M G)

Good conduct pay (European and Native)

Good-cond et renards

(Annuities and gratuities, and good conduct medals) Guards and escorts (I propern and Antive)

Annual confidential reports on British infantry (one half), and all general questions (I uropean)

Note—Abstract and requests on all coof-deathal reports are to be submitted to the adjutant general through the deputs adjutant general. When questions a use of to the obstantial reports on subjects death with an other temades extensive are the formations calculations to be formationed and the formations are the formations and the formation of t

Intal de and intaliding. Directo

Leave, soldiers (European)

Libinries

(Supply of books and maps and all other matters connected with Government libraries) Names (Changes of names)

Non commissioned otherrs (British regiments)

Order-Home orders (Questions vising out of these orders having direct headings are taken by

brittel es wi er the orders are enculated) Passage and transport-(Q M G)

(Individual and exceptional cases only are treated in this office)

Pay, soldiers (I uropean) Person and pensioners (Luropean soldiers)

Records

British regiments

I strope a solliers

Reliefs and movements

Remnula, soldiers (I uropean and Native from staff employ)

Roral engaleers

(All questions, except leave and promotion)

Sарреть 21 6 mile 18

Service, sold ers (Puropean)

Sig talling and telegraphy Soldier clerks

Staff soldiers

Telegraph department-(Q M G) Torredo defences

Trasure el esta

Unattacked list

(In ludwey volunteering and promotion)

Leinniger corps

(All que tions except musketry instruction)

Harrant charer

(This healing includes the discipline lence pay, records, &c , of all warrant officers, except those of the medical department)
Women and children

(Including subsistence allowance)

Special word in No III Branch not thown by distribution but

General anattached list register

11 Index to drite (1227) Appendix IV.

Unattached list by dej atments (departmental rolls fled and Lept up to d to by pencil TTT notes)

Unattached list by regiments (regimental rolls filed and kept up to date by notes) ν Unattached list casualty book

vi Service rolls of narrant officers (G O 860 of 1875)

VΪΪ Register of non-commissioned officers who are applicants for appointments at hill depots, gransons, and other staff situations

Register of the old l'uropean army 1117 $\mathbf{I}\lambda$

Register of British soldiers discharged

Periodical ret 7 is far isshed to departments

Annual return of 2nd class warrant officers requiring passage to England To quarter-mastergeneral on 1st June

Annual nominal roll of men on the unattached list on 1st April, for adjustment of clothage compensation To examiner of clothing accounts

Perio lical returns for unhed to Government

Monthly ensualty return of the unattached list

Ditto Indian pensioners

non-commissioned officers other than royal engineers attached to Ditto sappers and miners

Ditto myalid battalion

Half yearly return of British soldiers who have purchased their d schurge

Annual descriptive roll of non-commissioned officers and men on the unattached list

Ameril descriptive roll of invalids and pensioners formally belonging to the unattached list or Honorable Post India Compuny's service Annual descriptive long roll of European non commissioned officers other than royal engineers

attached to sappers and miner-

Annual descriptive roll of the Laropean in alid battalion Annual ers wity return of Luropean non-commissioned officers other than royal engineers attached to sappers and miners

Annual casualty return, pensioners

Annual casualty return, invalid battalion

ASSISTANT ADDITANT GENERAL

No IF Branck - Dietr button list of work, let January 1878

Bands and messes

Laroj can regiments (Includes all questions of donations or subscriptions, bandmasters and bandmaster seige nts) Bedding

(Including compensation for) Barcael's and buildings

(Includes furniture, tatties, fuel, lighting)-(Q M G)

Colleges

(Staff College Rootker College)

Clothing (European reguments Compensation for clothing included)

Colors standards and flags

(Supply questions only)

Commusurat (Comprising rations and all questions of supplies from the commissarrat not provided for under direct headings.)

Depôts (Embarkation and regimental depôts)

Discipline, European soldiers Courts-martial

Courts, civil Courts of enquiry

Deserters

Discharge-incorrigible bad character-ignoming Penal servetude and discharge of men sentenced thereto

Prisoners

Warrants for the removal of prisoners

Extension of curice (British soldiers)

Pines for drunkenne s

Dress European and Native

(Under this heading comes the dress of all European and Antice officers, warrant officers, and sol hera)

Dall and mstruction

Equipment (Includes sulcetabe, field-forger, and all stores not provided for by direct headings !

(Officers of British regiments and britishous) Exhibitions

Exchanges Gymnystics

(Includes gymnasia sustructors, fencing, hince practice, assaults of arms, &c)

Incomes British

Inspections, European

(Annual confidential reports on Bratish cavalry, and one half of the European infantry)

Master tailors

Military instruction

(Of officers and soldier , including examination of officers for promotion)

Neces arres

(Regimental necessaries of British troops)

Ordninee store

Postings of officers (To battalions of British regiments)

Prisons

(Military prisons, regimental and station cells, and visitors of military prisons) Quarter and house rent—(Q M G)

Recruiting and bounty (European)

Re engagement

Regimental institutions

(Including coffice shops, recreation-rooms, gardens, theatres, and other institutions for which no direct heading exists)

Savings' binds

Schools

(British and Native, including moonshees and magic lanterns) Sea Lits

Soldrer servants

Transfers

(British officers and soldiers)

Volunteering (British coldiers, except those of unattached list)

Workshops

Special work in No IV Braick not shown by distribution list

Register of pen il servitude and other prisoners for discharge

Ann al norl shops report for Government

Annual exhibition report for Government Annual multary prisons report

Annual return of officers and soldiers made over to evil power for tual—for Government Quarterly return of officers for depth days—for Horse Guards Annual return of officers for depth days—for Horse Guards

Ann of acturn of men volunteering to regiments remaining in Indra-for Government and Horse

Gun le Regists r of off eers who have passed various exam nations Ann reluctura showing quantities of hill and English beer consumed by the ticons-for Gov-

Deauly Assista t Adjulant Ceneral

Return Brewel - Last of returns prepared

ת	senpi	ion of reforms.	N in her of copies	Per what department		
General aturn W. C. Abstract aturn (to P turn of Luropean ctrp Return of left sea of Return of left sea of Art at left aturn of the sea of Art at left aturn of the sea of turn of the left sea of turn of t	lo lo lo lo lo lo lo lo lo lo lo lo lo l	troops) A time troops, 1 eng neers officers and wan turn turn turn turn turn turn turn tur	rut office r, Her at Bengal Madris Bombay	ers		A G Horse Grands M S to C in Chief M S to Victors G S of S for Ind's through M D Set, to Gost, Mily Depl C in Chief direct A G, Horse Guards Seey to Gost, Mily Depl C in Chief direct M S to Comm in Chief Seey, Beng al Mily Famil C in Chief direct C in Chief direct C in Chief direct C in Chief direct
Ditto	do	Native troops,	Bengal	į	1	.1

		222
Description of returns	of cop es	For what department.
Statement of afterthous on the staff in Indiv Last of officers in command Cascalizer in the Order of British Indiv Return of officers doing general duty at the several sta- tions in Bengal	1 {1 1	U Secy of Styte for War U S to Vicercy M S to C in Chief For No I Branch Ditts
As 1 of Caste relation of Native troops. Beingal Rehers of total of six sees and amount of layeur con- sumed in contemp, for Section of the experient man invalide and others who will be seed beene duting ensuring tacoping ensuring Return of deethe among officers of British and Indian a say Bettim of leakth smong officers of British army Bettim absuring vereign etsength of European officers British army Return of quarties, orderlies, sud-ceords furnationed by the Native tacops. Return of married and unmarried non-commissioned officers on timen in the three presidences Return of tune-capitrel incent and unwalds	{1 1 1 1 1 1 1	Seey to Govt. Mily Dept C in Chaff direct. Seey to Govt. Mily Dept A G , Horse Guards Samtary Commissioner Surge Geal Brith theops Ditto Ditto A G Horse Guards A G Horse Guards

Note -Also special returns wh | are called for freque thy

Assistant Adjutant General for Musketry

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No V (or M sheiry) Bra ch -Distribution had of work
Accontrements
Ammunition
     (Small arms )
Annual course
Annual returns
Apphraces
Armorers
Armorers' shops
Arm racks
Arms reports
Books
     (Mmor beading only)
Dall and metruction
     (Mimor heading only )
Examinations
    (Of officers and non-commissioned officers of both British and Native troops)
Exemptions
(From annual course)
Experiments
     (With small arms and ammunition)
Forages and tools
(A morore British and Native troops)
Forms.
     (Musl etry forms only )
Good shooting and judging distance rewards
Inspections
    (Circle and special reports on )
Magazunes
     (Small um9-Regimental)
Matches-Raffe
Macell neous
Ordnance stores
    (Attached to the musketry branch )
Practice between annual courses
Ranges
Reports-Circle
Returns
```

(Army and regimental) Staff departmental

(Ap) ointments on the army musketry staff)

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( 1230 )
Annendix IV ?
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Staff, remmental

(Appointments on regimental musketry staff)

Staff, non commissioned offic r They elling earns uses

(Appointments on regimental musketry staff)

(Out station or detention allowances)

Velunteer con .

(Arms, ranges, and musketry appliances only)

Special word in No. 1 (or Mustern) Branch sot shown by distribution in of a col-

I The preparation of quarterly reports showing petion taken on all must clay subjects through the quarter for submission to the Commander in-Chief in India, and the inspector peneral of must the quarter of their shapes and fittings, as well as the forges and tools in possession of the Butten their shapes and fittings, as well as the forges and tools in possession of the Butten armour their shapes and fittings, as well as the forges and tools in possession of the Butten.

cavelry, art llery, infantry, and in time infinity and cavelry

3. The examination of and report on, claims for good shooting and judging-distance rewards of

Nature civales and infinites regiments

4 The examination of monthly reports on the magazines and ammunition in possession of the British earthy and infantry and of Astronomyry and infantry, and the remedying of all defects discor ered

5 Checking the calculations contained in the annual returns of the practice made by the several regiments of British a valry and infantry and of Native on alry and infantry

Preparation of statistical returns showing, in detail, the musicity practice of the troops. Preparation of the annual musketty practice returns for publication in general orders

ŝ Prejuration of the monthly musketry practice returns for submission to His Excellency the Command r in Chaef in India

Colonel C C Tol noon Off-erst ng. Quarter Musica General on India

Barrack Department Bazars Bedding (Pallineses, coir, straw, supply of)
thary Buildings, hutting Buildings, auxiliary barrick hehtme .. ** cells and prisons mess houses ,, , cecles retion! Native troops • ,, gymnasia quarters 11 hospital regnmental institution ••

Buildings, sanitaria

```
Burr I grounds
Comp grounds and encompments
Cami s, Comm inder-in-Chief
Camp equip ige
Cumps of exercise
Cuntonments
   (Sites, &c., cantonment regulations
     other than military )
Contonment funds
            lock hospitals
Complaints and petitions
Cooling (scale of niensils, carnage of,
  8()
Departmental
Di tril ution of army
Leclesment I
  (1 urniture, est iblishments, and allow-
     ance for churches, &c)
rulance
Loun ment
  (In naching tools, Lagawahs, suke
    tils, &c)
T Libi binenis, general
                puni ah and tattie
thermanti lote
I nre (transport officers and compe,
l cil operations
Linance rdy in ce
        rshin to
        mand nems
  ,
        ncoveries
   ,,
Tar s
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Lorn,e

Portifications Tuc! **Furniture** Garden* Guards and escorts (Provisions of troops for) Gymnasia Inspections Intelligence Labrary office Muscellaneous Meta orological (Observations t Simla, instruments for, &c) Movements, ensual rehef 11 samiaria. Ordunnee stores Petty supplies Pontoous

Ranges, artillery musl etry Reports and returns Returns, carbail atron discribirl ition Routes and roads Sunt my questions

Signalling and telegraphs Surveys and reconnaireances Topography Trunsport, inland

move able fr a sielt carriage Working parties

(1231) [Appendix IV

Colonel A. H. M. ever. Doy by Adjustant-General Royal Artillery in India

(a) Promotions appointments, postings transfers, exchange, examinations, leave and furlough of others of royal artiflers

(b) Polishment, pramotion, and transfers of soldiers.

(3) Fallstrent, promotion, and transfers of soldiers.
(c) Disposal of men volunteering to remain in India and of drafts arriving from England.

(1) Cane of seconds of all m n of the royal artillery on the unattrached list (c) Armyments of forts, equipments of batteries, stores, ammunition

(e) Arramants of torty, equipments or sources, stores, tunnation (f) Interior economy, dress drill melading gun dull of cavalry and infantry, printee of batteries, and all questions connected with utilles, losses. These me on drivided into no less thin seventy seven headings. Lose subjoined list muited C.

These use on the day also no less their several seven around a value of such as supposed use maken C. See the the Collowing appear world A. B., and C. which were submitted to Generoment when applying for the services of a deputy, assistant significance in this office, and which were granted As a certain statement A. I may add that the number of letters, So, recent on this office and they are the control of the control of the control of the control of the control of the control of the present year then under of recepts and issues have been 11,015 and 11,261 respectively, or no wrongs of 1.385 and 1.29 in northly

n

Lest of heads on dealt with in the office of the depity adjutant-general, royal artillory in India

	NECT-OFFICE STATE OF THE PROPERTY OF THE PERSON OF THE PER		
No	Heading	No	Head ng
1 2 3 4 5 6 7 8 9 10 11 12 13 11 15 16 17 18 19 20	Ammunion Am of the conference	40 41 41 43 44 45 45 46 47 48 49 49 51 52 53 54 60 61 62 63 64 65 66 67 77 77 77 77 77 77 77	Jaspections (forses) Jaspections (forses) Jave and fullough Models and gratuities Messes messing and unions Missellancess Vocenests of officers Orders for confirmation Orders for confirmation Organization Pay and allocances Penancos Practice Practice Practice Practice Practice Remotions and appointments (officers) Practice Remotions and appointments (officers) Remotions and appointments (officers) Remotions and type attactes (non commissioned officers and artificers). Rescurits Rescurits Rescuriture and re engagements Evolution Practice Rescuritures Rescuritures Rescuritures Rescuritures Rescuritures Securitures Rescuritures Securitures S
89	Inspections	l.	ł ,

1

State seat change the sur shor of letter received in, and timed from the affice of the laying adjusts to general, regul artillegrus Indue during the past four years, for the period from let January to 2016 J. is in cock year.

Ιτ

	R	ECEIP18			1			Issues			
	1874	1875	1876	1877	Т		1874	1870	1870	1877	
acreasa	3 304	3,759 454	4,038 250	4,458 420	ļ	Increase	3,040 380	3,490 459	8,670 177	4,602 926	

Me coundum by the Deputy Alpatant-General Royal Artillery on India, stating the subjects dealt with in the Artillery Branch of the Adjutant General's Office, with reference to the Government of India letter No 5801 tope turnin Gueral a Officer dated 10th April 1876

All questions connected with the following subjects and referring to the 103 of artillery in India are dealt with in the artillery branch, ore ,-Promotions, appointments, postings transfers, exchange, The near which is one meaning include, see, "I commonly symmetrics, provings transies, estimates, estimates, the continuous of the province of soldiers and their framework of from one brittey or brighte to another, despot of men of undering to remain in India and of drafts from Dagland Almanicais, equipment stores, ammunition, interior economy, these, drall (including gun dall of exalty and infantry protice) and all questions connected with willers houses

Q estions relating to miniments were transferred from the quarter master general a department on 1861, where it was stated they had previously been dealt with through madvertence, and questions relating to intillery horses, and applications for leave from artillery officers, were to insferred to the

deputy adjutant-general in 1868

The other subjects above mentioned have been dealt with in the utallery branch since its formation, in 1862

Of the three subjects since tal en over and still dealt with in this branch that of umaments has marensed, and will to a still greater extent increase, the work of the office. It is, however, a purely artillery question, and should always have been dealt with in this office.

Applications for leave from art llery officers me, I think, best dealt with in this brinch, is the deputy adjutant-general, royal utilizing, from confidential reports and other sources, is fully acquirinted with the state of the batteries. The transfer of these applications entailed no extra work, as, prior to their transfer the deputy adjutant general had in all cases to record his opinion whether the applicants could be spared or not

the questions commerced with artillery horses, which were builded over in 1808, were the distri-bution of renounts, funded and esting returns. Remounts us now distributed under the orders of the director of unity renount operations, having first been distributed the savent monathed brustless by committees assembled under His Excellency's orders. Transfer and easting not urns are still dealt

with in the artillery branch, and I think advantageously so

The deputy adjutant general has generally been for many years a mounted officer, and knows the requirements of the mounted branches of his arm. It therefore appears desirable that questions

connected with artillery horses should be dealt with in his branch

One more subject was taken over in the beginning of 1874. Finding that I was frequently referred to en questions relating to early house, small to those which I had to deal with the virulest artillary and that as the referred, department consists so lugdy of offices belonging to the netallary and that (so there is no the property department consists so lugdy of offices belonging to the ratillary, and that (lipostesse selecting to him get an quicked equally to early run attillar). I thought it must describe, for the sake of unformity of action, that all these subjects should be dealt with by one officer for evenlry as well as for widlery and knowing that by taking them over I should add but little to my work, I offered to do so and my offer was recepted

These, I submit, are the only duties I have performed which have no special application to the artiflety, and they have now been retransferred to the adjutant-general's office

In purgraph 3 of the Government of India letter referred to it is stated that, in course of the In pringiple of the Government of their letter reterror to it is started unit, in course of the consepondence which has fall en place on this subject, the profice a high elatins at the Horse Grands has been order in support of the sistem of having a last is inflamment to a sprint department of toy of artillery, but that there are national points of difference between the two cases into which it is not necessary to enter, but which lender the comparison nugrifory

to the recessity of other, you warm remore the comparison mercurey.

It certurally was shaded that the dentes of the denty, which the genuity adjust integerinal of artillesy required such a thorough I moviledge of the personnel as well as of the material of the army, that no one but in utility officer can afford but neal "assistance and that it is no doubt to the regimental and technical that the theory of the personnel and technical that the theory of the personnel and technical that the theory of the personnel and technical that the theory of the personnel and technical that the personnel are the personnel and the personnel are the personnel and the personnel are the nature of these duties that the artillers branches, both at the Horse Guards and in India, one their

With right to the personnel of the regiment, I submit that, so long as the present organization exists the commund of that potition of the regiment serving in India must, to a great extent be virtually exemined at head quarters, and must consequently be dealt with in the office of the deputy adjutant general royal artillery in India, just as the command of the whole regiment is exercised the district position of the contract of the c in chief in India are not dealt with in my office here difficulties will arise, and the object for which the office was no doubt established, 12 , to ensure similarity of system at home and in India, will be defeated

General questions, however in no way peculiar to the artillery but common to the whole of the army are not dealt with for the artillery in my brunch. Important questions of discipline, for instance, we dealt with by the adjustant general for the utillery as for the lest of the army, also

questions of clothing

The property of dealing in my branch with all matters connected with artiflicry material is, I presume not questioned by the Government of India

One subject I have omitted-"schools

Questions claiming to utilizery schools have generally been dealt with in the artiflery branch

The large numbers of detrehed britten schools, and the constant necessity of employing artillers non commissioned officers as acting schoolmisters, render it, in my opinion, advisable that they should be dealt with 15 me

The reports honever of the superintendent of mm; schools have, until lately, not been sent to me and that one I have not been in possession of full information regarding the schools

In conclusion I submit, now that carrier horses and line generates and the veterinary department have been transferred to the adjutant general, that there is nothing dealt with in in branch ti at should not be de it with and that am further transfer of work to the adjutant-general would defeat the object with which the artillery branch was established

Remarks by His Pacelles by the Cornander in Clief in I dia

I concur in the above There is no branch of work now retuned in the royal artiflery branch which could be properly transacted elsewhere. I regret that the whole question of remounts as not retained in the deputy adjutant-general, 101 of utility branch as it must still be dealt with there as regards remounts for latience. The separation of civilry from 10701 utility, appears to me to be moon ement

Men orandun by the Deputy Adjutant-General, Royal Artillery It is not possible to give in actual details the increase of worl in the royal nitilities branch due to the reorganization, and consequent abolition, of brigade head quarters in India necessitating it any the integrations, in convenient with them quartens of highles being referred to arm bad quarters for settlement for this re- of every lind and description. But the following may be mentioned and may be cost develor to prove that the work, his unordensity his necessarily interested.

(1) By the abolition of the seven brigade instituctors in grance, the practice reports of 18 batteries at 300 rounds per batter; have to be carefully checked by an officer in the royal artillery office.

and, now that shooting prizes will rebably be introduced, this becomes more than ever necessary

(2) By the aboliton of brighde hard quartess, under restrictions from the Horse Guarde Wer Office the promotions of all non commissioned officers above the 1 ml, of corporal and of all artificers have to be made in the deputy adjutant-generals office. This necessitates the checking of the articleation returns and the keeping up of promotion rolls for 48 byteenes which must be under the superusion of an officer and cuinot be done at the head quarters of the royal at their drumons, as it has been found necessary to group the artillery of several divisions and districts together for the

parpose of ensuring an equality in promotion

(3) The records of service of officers of the late Indian artillers formerly kept up by the

head quarters of brigades, have now to be muntamed in the office of the dupthy sit purity could rung it alliery

(4) The received of royal artillety mea on the unstructed list which were formedly relained it head quarters of brigades have now to be kept up in the deputy rejutant gone it is office.

 (6) Transfers from one battery to another
 (7) Postings of drafts or arm at from Pugland, and disposal of their records (which as far as brigades were concerned, were, under the old system carried out by officers commanding brigades)

negrees were construct, wear, under see our system current out it y ducers communating our, mere (?) Inequate specialized in the mere of, others and men which in a reny matrices were formerly sent to and disposed of by incredible three nos of increasing to be settled by the dying's optional-general to an disposed of system, 'monthly returns and ? essently returns we exceed intentity in head on that of linguistic by like new system. It monthly actions I I cass like returns I qualify through the mere of the system of the system of the system of the system is a single system in I qualify through the system of the sy

returns in the deputy adjutant-general soffice by considerably more than one laif

remain in the deploy significant spaces in source by continents) must be at the size of the continent and the size of the size regarding transment of forts and equipment generally and constant changes in, and introduction of, new articles of most iel which are lakely to occupy the attention of the Government of India for

new arrived to make a which are being to decopy the accession of an externation are successful.

(1) If may also be mentioned that the introduction of interpresentant labels of royal artillary will cause an add then to the work of the diprintment for the transfer of batter as from one arthury with comes in that can be seen to be seen to be presented to the property of the prope ment of every description

A B — These three last pringraphs do not refer directly to the reorganization of the artillery, but

nevertheless show plantly sources from which work of the artillary office has considerably increased of late years

Colonel J \o ng Judge Adve cais General Be gal

Registry, review, and submission, with reports, to the Communder-in Chial of general courts marital, both Kuropan and Astive, also of such district courts martial, Luropean and Native, as are reserved for disposal by His Locellenes

Registry and review generally of district courts-martral. Fu opera and Nitree, with reports on such as for any irregularity have to be howght under the notice of the Commander in Clief.

Register and review with reports to Adjut int General, of Native summary courts martial involving dismissal with ignominy Reports on any other courts martial as to which appeals have been received

Begonia out agreement reported in the large general of district out is north 1 of officers with a officers, and medical subordinates for may officere und of all persons for non military officers.

Cheer and questions of various kinds referred by offices at virus bead quarters, general officers.

commanding divisions and districts and the deputies of this department

Occasion it references from the judge advocates general of the other presidences Review of registers of Antive courts in irtial, regimental and summing, received monthly for each circle f om the d 1 ties of this department

Frential designish of general and district courts murti I (European) for record in office of judge advacate-general, London with regular monthly lists of the same

Preparation of all ununits requiring the signature of the Communder in Chief empowering his subordinate officers to convene general and district courts martial, and for the removal of prisoners to England

F F Collins Evq Principal Vetermary Surgeon Bernal Army

Monthly sanit my neturns from batteries and regiments of British ercalty upper encle Consolidated annual report from monthly returns sent to adjutant-

goneral Annual returns embodying similar information from the lower enele

Commentary on the above forwarded to adjutant general

Half yearly indepts for bazaar vetermary medicines, upper circle

To commissuret department Annual medicul indunts for Lurope medicines and instruments from all cavalry regiments and batteries, upper encle

To medical department

Annual veterinary reports of statistics, &c., from each vetermary surgeon in both encles

Annual indents on principal veterinary surgeon for forms required for batteries and regiments,

Emergent undents for Europe medicines.

To medical department

Emergent indents on the commissarint department

To commissaint department and controller of military accounts

Reports of transfer of vetermary surgeons, both cucles Special reports upon epizootic diseases in both circles

Commentary thereon for adjutant-general

Reports of departmental committees upon forege, medicines, instruments, &c, in upper circle

Reports to the departments concerned

Annual and departure reports of veteranary surgeons, both circles

Reports upon remounts passed into the service Quarterly returns of the veteriority surgeons serving in Bengal

The allotment to the three presidencies of veterinary surgeons as they arrive from England

Casualty reports from regiments and batteries

Cheerly instructions from principal veterinary surgeon in Fingland
Annual reports of inspection of British and Native cavalry regiments and britishes of artiflery to adjutant-general

Commentary upon similar reports from lower circle

Annual confidential report to the principal veterinary surgeon in England about the qualifications

of vetermary surgeons in Bengal Copy to military secretary to His Excellency the Commander in-Chief

Distribution list of vetermary surgeons in Madias and Bombay Report from standing barrack committees upon questions of sanitation connected with the der nitment for report

Casting committee proceedings for report

Departmental reports from the various head quarter departments Annual departmental estuante of expenses of the veterinary department for controller, military

Quarterly departmental arrangement of the army list

Departmental transfer returns for adjustment

Departmental sanction for leave and arrangements for currying on the duty

Veterinary surgeou's periodical inspection reports upon horses of out-stations for report Major A S Hunter Director of Garrison Instruction in India

All matters in any way connected with the instruction and examina-tion of officers desirous of completing the requisite qualifications for—

(a) appointment on the regimental personal or general staff of the

(b) promotion to the several grades up to field officer, such as-

selection and accommendation of garasson instructors and examines serview of papers of questions and drawings submitted for approval by the examiners

(3) 11 unting and periodical issue of pypers of questions and drawings for the various examinations
(4) formation of classes, withdrawal and reprod of officers attending classes

(5) introduction of new tests of qualification, or of new additions of the several text-books (6) reporting the results of the examinations for publication in orders, and for the information of garrison instructors

Mujer H J Hallowes Inspector of Gymnesia in India

Apparatus. Buildings Clothing Drill instruction. Instructors (i) Miscellmeous (i) Returns (ii) Stuff (i) Stores

(1) Books and forms (a) Apparatus—embraces checking and passing estimates of, preparing plans of, suggesting alterations to , &c

(Appendix IV

(5) Buildings—embraces either thous to burned rooms to suit apparatus, alterations and repairs to existing buildings approving estimates of alterations to, feneng flows for cavalry and infantry grimmans; our fibre for intense of grimmans.

(c) Clothing—embraces passing indents for &c used in gymnasia
(d) Drill &c—embraces annual course for officers and men to qualify for certificates, the

(d) Drill to —embraces annul coulse for oneers and men to quarry for certaincates, the working of the neural classes in regiments, &c

(e) Instructors—embrace the confirmation of all appointments in regiments, and the keeping

regimental staff up to authorized number

(f) Miscellaneous—includes subjects not embraced in foregoing, also "inspections," which
compress the munual senort on the word my of eventuasia and reports to reneral officers on the regiments

omprises the unital

in their commund

(g) Reviews—onbriose checking all returns received also calculations in class reports of mea,
compling quarterly acturns for His Pacellenev the Communder in Chief and the Horse Guards,

ched ing prizes for competition in swordsmanship of ear by regiments, &c

(b) Staff—embiaces appointments to superintend gymnasia, and the non commissioned officers

attached to each 1st class g) mass um and questions connected with office, pay &c

(i) Stores—embraces passing and cheel up indents for fenong and gymnastic stores for each

regument and gymn summ, in all estimates of requirements, &c

(7) Bools and forms—embiress the supply of drill books and forms to each regiment

Major P W Duon Super a tendent British Army Schools

Super a The subjects dealt with m my department are the following—

(e) The suppointments, transfers & o, of soliod resters schoolmis tress a and assistant teachers attached to British army schools in this presiding.

(b) The recommendation of non commissioned officers and soldiers of the Bi tish army in this presiding for establishes of court on (c) The receipt and record of monthly reports from the various schools about 75 in number

(d) The provision of materials (books, stationery and vorking materials), involving check of

1 The provision on returns (clouds, engenery and vorting mutually, invaring cases or indexts, record of excepts and represent on a nound requisition.

(Correspondence with the adjutant-general in India and the director general of military education, relative to regulations and order and this system of education to be adopted.

(f) The receipt and transmission of reports by the sub inspections of the r am all evumentance and inspections. This is an important portion of the present work of this office, as all defects brought to notice by this sub inspections have to be considered and referred to officers commanding, or reported on when necessary.

(g) The preparation of the unual estimates of the department, and the furnishing of an annual

report to the director general of military education

(4) A general supervision of the schools

Moyor P. H. Marsh Septer a tendent hative Army Schools Umballa.

EXECUTE C OUTBOOK WORK

(a) Inspection of sexty eight regimental schools under His Excel lency the Commander in Chief (so far as the travelling allowance permits)

(b) Superintendence and triuming of the soldier students of the Nature army normal school, Umb lla, for the teacherships of their respective regiments

(c) Visiting and colleges for everly head masters distinct schools for infantry head masters, and higher vermentar schools for vermentar masters, in co operation with educational officers.

oneers.

(d) Visiting Gove ament book depôis, Native salesmen of copyrights to arrange thrit portions
of books unlable to the wints of our schools be published and Native bookshops to fix this lowest
proces for or books and material noted in the Native somy schools code

proces for our books and material noted in the Native surry schools code

(a) Visiting retried Native consistend officer, and leading Natives interested in schools to
explain the cureer open to our schoolmasters and induces them to encourage candidates to enter the
service.

OFFICE WORK.

Entract report on Nature army schools, 1873-75 Adjutant-General's No 1.058D, dated 22ml May 1876, 1992 1

The worl consists of-

(a) correspondence reports, returns &c., for army head quarters and other departments,

(b) dutto with 08 communding officers of regiments
(c) dutto with nearly every head master of Government and aided colleges and schools

when Oordon is the that of the state of the

(d) the examination of school releadance registers and schoolinesters' reports received quarterly and annually from all the regiments of manty and cavalry in Bengril, including the normal school (e) correspondence with regiments of the Punjob I rootes Lorce, and of corps under Covern.

ment raxious to ma atain schools

The necessity for this work wases from the fact of the schoolmasters being of castes and dreves propried against entering we call stell wary schoolars were, and the composition which was been obtained by which as offices and professions amongs to only to the cheracted youths of their provinces

Colo el R \ Maore Acting Commissary Gracial Madras 1 Victualing Furopeans
2 Victualing families

Vietualling rest-houses
 Vietualling Natives on foreign service

5 Victualing Europeans on board-hip

Victualling Natives on boardship Supply of doolie beauers

8 Supply of hired beners 9 Supply, care and maintenance of elephants

10 Supply, care and maintenance of camels

Supply care and maintenance of artillery drught bulloels

12 Supply, care and maintenance of sick cartbullocks 18 Supply, care and maintenance of mules

14 Supply, case and maintenance of pack-bulled's 15 Supply of mult bequer

16 Supply of 12m 17 Supply of haed carrage

18 Treight of stores from post to post in India 19 Inland boat and rates steamers freight

20 In Burmsh payment of one third freight of stores from England 21 Payment of all rulway bills for troops and

stores 22 Despatch by rail of all ordnance, clothing and medical stores

23 Carringe of ordnance, clothing and medical

stores 24 Feed of hors s

Vetermary supplies 26 Dret of sick horses

27 Supply of hime geni 28 Supply of puck-tilies and theesties on certain

occusions

29 Supply of camp contingencies 30 Sapply of hay in hea of girss cutters

31 Supply of ha tack furniture and repair of de 32 Supply of school furniture

Colonel S H D Clamer in wgo Ordnance Department,

The supply of warlike stores and camp equipage The municipal could be gunpowder, fives friction takes, &c
The municipal could be gunpowder, fives friction takes, &c
The municipal could budgets for a steriel and personnel, estimates

of cost of Lucope stores
Annual indent for ordnance stores from Lucope Orders for disposal of unserviceable and redundant stores

Supervision and administrative control of arsenals, factories and depots, with periodical inspections thereof Replies to references from Government on the subject of warhlie stores and other matters

(1236)

23 Supply of veterinary furnitine

recreation rooms 39 Supply of carts for filling plunge-baths and

46 Supply of disinfectants

48 Lighting 1 ight schools

49 Supplies to armomers' shops 50 Supplies for browning arms

56 Supply of dicts to hospitals

61 Supplies to Native hospitals Supplies to lock lospitals
Payment of all charges for earls and boats,

&c for medical stores

department

64 Litering into contracts for medical store

51 Supplies of brarred miscellmies 52 Suppl es of wine and beer to hospitals

Supplies of furniture to hospitals Supplies of clothing to hospitals Supplies of bedding to hospitals

57 Supply of medical comforts
58 Supply of hera med cures
59 Supply of hospital miscellames
60 Supply of dict and table requisites

furniture

40

41

41

45

53

54 55

£8

Supply of column to harrows
Supply of oland lumps to harrows
Supply of filters
Supply of bedlig

Furniture to bur nek musters

Purnture for reg mental workshops

43 Supply of fringes and ropes to punkhas S if ply of I has I has tathes

47 Lighting libraries and secretarion rooms

Entering into contracts for punkah cookes

42 Supply of seeds to soldiers' g idens

37 Supply of cooking utensils 38 Supply of furniture to rending-rooms and

General correspondence with regiments butteries and departments regarding alterations and additions to equipment, and general questions thereon

Checking and passing indents for store-

Promotions postings, removals &c, of officers warrant and non comm smoned officers and Native establishment of the department including all out stations Checking and passing of bills for articles of ordinance supply purchased locally, including repairs

to camp equipage Checking and approving contracts and tenders for local supplies (including purchase of tamber

for gun carriage factory) at lived quarters and out assemble
Administration of the saddle contract funds for regiments of Native cavalry

Cheeling amual demands from assemble, factories and depots for articles of stationery of Europe and country manufacture

Connspondence regarding the truining in the local aisenals of armourer sergeants and armourers for British and Native regiments

Surgeon General C. A. Gordon M.D. C.B. Princ pal Medical Officer British Forces Madras

The subjects dealt with in this department comprehend all matters connected with the full superintendence—medical similary and economic—of all British regimental and other hospitals under the Madras Government and of all professional duties connected with British troops

m the Madras comman l

The following returns and reports are forwarded to the director general army medical department London

General annual return of such and nounded (W. O. I. 398 in which twelve minor returns are embodied)

Annual report of medical transactions to accompany the above. General annual return of casualties

Arrival and departure of medical officers

Moathly return of sick Monthly return of medical officers

Return showing the distribution of British troops during the quarter

The following are submitted to the Midras Government or

Stational return of mortality among Busish troops in the command

Report on health of British troops with twelve tables

Administration report of the British troops compiled for the official year,

The following we transmitted to the adjustrant general v 1 1 General annual saintray report and returns (W O P 516) for submission to the Secretary

of State for War through His Excellency the Communder in Chief The following is trunsmitted to the surgeon general, Indian medical department, Fort St George

 Numerical return of British troops in the Madris command.
 The following returns are checked in this office and forwarded to the saintary commissioner with the Government of India

Weelly return of vol from each corps in the command (W O F 294A)

Annual returns from each corps (W O P 197 and W O 1 298) The budget estimates of medical officers are also cheeled by this department, and a general estimate propored and furnished to the controllar of military accounts and the commission general

Dr H R Owell MP Acting Surgeon Geseral Indian Medical Struce Madras

The whole range of medical administration, namely the invintenance of the necess ry staff of medical officers and subordinates, the regulation of the postings and promotion of the entire medical staff and of

the ed critica of endocthartes the helith and souttion of the Native
men and the medical and economic arrangements of Astric multicry
hospitals, lock hospitals military and crit loratic asslums speeral and other entil bespitals at the presidency leper hospitule ja I hospitule, police hospitule and civil dispensance

The tabelton of statisties and preparation and printing of much logoris connected with the statues and meritality in the Autor way and waiting of lock hospitels, hundre systems evil bosnial and disposures. Also general and miscelleneous interdeprintmental correspondence is con-

ouguata and supervisor. Asso general size, inspectionism intellegeration of the desired procedure in the schedir whiteasts from of the Medium proceedings.

The administration of the medical store do 60 and sing the preparation of indexed for supplies on He Mayety's Societary of State can the feet edge and pleasing of 41 indexes for mediums, for required by heapith's δe unified year and stall. The proposition of the notice 10 singlest edge and making, and the checking of 41 lineal final head belighted in so for we they concern sent dis-

Dr W H W Cornell FROS Sandary Comp se oper for Mul as

The sanitary commissions is the ide see and referee of Government m all pullic health matters. He inspects periodically and reports on progress in municipal affairs and towns and villages in the presidency as well as military continuents borars &c within the Videas command. (2) he is also the registrar general of vital statistics, and compiles in his office returns of both and death registration throughout the presidency, (3) he has also the direction on I control of vaccon tion throughout the presidency, and (1) as the official adviser of local fund circles and municipality regarding all matters relating to local expenditure for dramage, water supply, conservancy and vaccination

Colonel J W R level Controller of Mil tery Accounts, Madras

The department consists of eight distinct offices with establishments under the govern control and supervision of the controller of multing accounts. The subjects dealth with, and mode of a toccolors, in each of the subordinate effices are fully stated in the appendices attached and

A -Pay eximiner

marked-B - Drammer of commissions elothing and stal accounts

C-Exemiter of ordernee recounts

D -France of medical accounts

D -Eraminer of fund accounts

I -Accounts branch of the controller's office

1 — Acquains account on the continuers of source & —Presidency pay office in a lack also are disposed of the several questions to which turn ers are required by the Commission This report will therefore, be confined to toples on the several queries so far only as they affect

the controller's off to proper, and the duties conne ted with it. The controller's office is divided into three branches—

1.6.—The general department in which used sposed of references of every kind on financial questions affecting inditing expanditine, whether from Government or from other offices. It hands according materially exponentiately instructed from presentations of the second state of the season as a standing order of the level forestment that no question amounting expondations of my description shall be submitted to Government except through the effice of the controller of military accounts, whose report on the proposed measure is required to recompany the correst ondence

The duties sile of a general nature appertaining to all branches of the military department in

connection with multiry expenditure

2 id - The ludget department is that employed evaluately in the preparation of the annual budget estimates, and all tables of a statistical nature

3rd — The pension diportment in which we examined and verified all applications for pensions paid in the military department

Brammer of Court estreet, Cloth-ber and Stud Accounts Maders

Audit and compilation ofcommesanti, elothing, stud and radius, accounts (1238)

Examiner of Ordinance Accounts.

Andsting ordnance store, regimental, brusack and station recounts Compiling each and store transactions

From ner of Medical Accounts

A general control is exercised over medical expenditure, and over the recounts and returns of executive medical officers All charges disbursed by the commission and pay departments on account of Duropean and Native multary hospitals are analyted and

Governments are audited and compiled

compiled The receipts and issues of medical stores to mulitary, civil, public works department and other

The charges incurred on account of the civil hospitals in the presidency town are rudited and compiled

All charges which are not duly authorized, or not properly supported by vouchers, are objected to.

and, if necessary, retrenched The examiner reports to the controller for the information of Government on all medical subjects and proposals involving expenditure, giving his professional opinion when such is required

Exammer Mod cal Fund Accounts Madrus

The names of all the subscribers and their families are registered with the pencions seemed for their families. The authorized deductions to be made from then pay are notified to the various disbursing officers Acturnal calculations are made as to the vilue of contingent pensions secured for wayes and families

Accounts of subscribers me regularly and ted and bilanced

All subscriptions received are posted in the subscription book. All promotions retirements and ensurities are noted. All information regarding subscribers in England is furnished to the director of military unds

Examiner Military Fund Ac counts, Madras

A nominal roll of all subscribers to the fund is lept in the office, containing a record of their families dates of admission to the fund, promotion marriages, births & together with pensionary benefits secured to their children. The recounts of the subscribits are kept. Subscribions and don thous dibited. Lorins are issued and recovered. The amount to be deducted from each officer a pay being duly notafied to the various disbuising officials

All information regularly subscribers in England being regularly furnished to the director of military funds at the India Office

Mil tary Account Deportment, Accounts Brouch, Madras

The prepulation of military books, inter departmental and interpresidential and home accounts to watch adjustment of advances presentation is not encloped assignments in favor of disbuising officers (p.y., commission), remount clothing) British regiments, infinity and entally and brigides and butteries, and Native corps in Buimah, and officers, civil and military, in charge of pensions, to examine and adjust transactions shown in the inter-departmental and inter presidential and home accounts

The checking of recoveries and proments appearing in the military recounts connected with the service funds, Indian service family pension and upotheraired fund, and Government savings bank To watch the recoveries of stamp duties, on commissions of officers of the Indian army, and fees due by warrant and Native commissioned officers, &c Of recoveries of miscellancous claims against officers, &c

To I cop accounts in connection with effects of officers in cases of death, describes and insures on SCPV1C2

To check invoices of military stores, regimental necessaries, with freight and tonninge account.

Pres dency Pay Office Madras

This includes pry abstracts of regiments, departments and individuals, also contingent bills, which compuse postage, binding, telegrams, trivelling expenses, &c

Liquitement Colonel A Searle, Superintendent and Agent Army Clothing Wilers

The subjects dealt with in this department pertuin to army clothing and accounts therewith connected, including the budget estimate Deputy Adjutant General

Bugudier General P W Jebb, Adjutant General Madras

Statement of officers' services

Army Regulations Courts martial

Compensation for losses Promotions, actnements furlough, &c , of officers

Memorials Staff corps Vetermary surgeons

Garrison instruction Examination papers of British officers for pigraotron

Horse Guards and War Office correspondence Voluntering—discharge
Trusser, &c., British troops
Warrant officers' promotions, pensions, records,

estates

Non-commissioned staff of corps and departments Clothing—British troops Schools—British and Native

Postings of officers to Native regiments Gymn isra-telega ipliy

Army list. General orders, extracts, proofs, indices

Confirmation orders Medical department-postings and removals Lxumining and despatching correspondence

Natave languages

Assistant Advatant General

Mess and band subscriptions Dress Native army Promotions—Native officers Order of British India Regrating—transfers, duchange, Nature army Clothing—Nature army

Petitions not provided for Balle and musketry Arms-accountements Remount department Officers' charrers

Custing committees Claims of heirs to bension Register of beirs Pension-invaliding

Petitions for pension Native non commissioned officers Rank and file Bibles—prayer books Rations-envicens Meduls-prize clums, and petations relating therete Indents generally

Inspection reports Confidential reports Labraries records &c Roturns generally Army ils and departures Casualtsea

Lord Clave's Pand

Officers' and soldurs' nadows

Major Tehn Ewng Officusts Quarter Matter-General Madras I disposition of troops 2, reliefs and movements of troops by sea, land and indway 3 burnek and hospital accommodation, 4 mulitary buildings, 5, public works budget, 6, barrick supplies and attendants,

b puttings, 5, public works bedged, 6, barrock supplies and discoluting, 10, concerning S, matrix, pedence, 9, reach three buildings, 10, gets respectively. S, matrix, pedence, 9, reach three buildings, 10, gets rapply, 11, françois, 12, passage of obsure with troops by r., 13, cart.hare of farming of Marke through 1, francois, 17, elicitanct of cump opunego, role carrage, beaute, extile and tend lacene, 18 intone and condaine, 10 beginning 20 getimess, 20, punches and intone 22, grants of 1 rnd in cantenments, 25 hours beaute in cantenments 21, real crimes, 25, bottler gettlers, 26, burser grants, 27 pines of cells 28 administration of real form of the conditions of th rouse for mining eminoments have been assessed as from 100 to 1000 209 time section require ments, 30 significant and telestriphy, 31 troperaphated maps and surely of military conforments, roads and communications, 32, roates, 33, ecclesiastical requirements in buildings and furnitare

Colonel G P B Sherard Julya Advocate General Madrus

Military law and courts marked procedure generally, together with all matters connected with the maintenance of discipline in the army medental thereto or having any hearing upon the civil and criminal law codes of the country. Every court-muttal (district or garison) held in the Madras army is scrutinized by the Tudge Advocate General in person and any errors not noticed by his deputy are pointed out by Intitez

Lenfrannt Colonel M W Wil Subjects coming under the following major heads are dealt with by to globy Act g Co cm ssary Gon eral Bomboy this department

I -Perso sal (commissaurit)-

(c) Commiss and warruit, and non commissioned officers
(b) Uncovenanted servants
(c) Travelling on duty

Travelling on duty Doolse-bearers

Public eattle, which includes field column carriage

II —Victualing Europeus III —Victualing Natives IV —Stores and stock V —Malt honor

vi ⊸Sprats

VII —Purgliuse of live-stock

VIII -Transport charges, hared carrage, freight, radway earnage, camp compage IX -Horses

X -Cump contingencies XI —Miscellineous XII —Incidental charges

XIII -Sea Lit

XIV -Budget accounts, andit

XV -Indonts

XVII — Advertusements, tenders and contracts XVIII — Britisch charges XVIII — Metheal charges

Major General W S Hatel, It spector General of Ordnapec and Magazues Bombay

Supply of arms, accontrements, ammunition of all descriptions, intrenching tools and camp equipage, and sick envirge to troops Supply and required carriages of commissional depretament Supplies for royal nary relunteres and beet police Arrangements for obtaining supplies from lingland and from local

gources whetler Government factories or contractors

Inspection of arsenals and other ordinance establishments

Depair Surgeon Central J M S Force Offering Surgeon General Bestud Larces, Bombay

 [a] Medical — Appointment of medical officers to British troops
 Distribution of medical subordinates attached to British troops Arrangements connected with the equipment and establishment of British hospitals,

Santary - Sanitary ari ingements

 (b) Sandary — Sandary or inguments
 (c) Statistical — Compilation of statistical, medical and sandary returns and reports

Dr W G Hanter General Ind an Medical Depart ment, Bombay I nance, mulitary and covil ditto Printing.

Establishment, ditto ditto Education. Revenue, caval

Stores, &c . military and civil Medical bourd.

ditto Statistical, detto Sanitation,

Political, cavil

Departmental administration

Military medical ditto ditto Civil diffo

Miscellaneous, military and civil

Dr John Lumsdane Sanstary assence for Bondhay

In matters relating to the public health to keep constant watch upon the sanitary condition of the people, European and Native and of the districts generally

(6) To recover the mortality from various causes and as the details which male up the san tary requirements of a district are each and all

of them important factors in connection with the death-rate of the usa, to note everything which, for good or ill can affect that death inte

(c) To report and advise upon the prevention and mutigation of epidemics, and upon the causes, prevalence and prevention of the more ordinary discusses

no moral and pervision of an more country there are statistically military improvements generally, as well us entologiests a gueral supervision in sixtiating military information, upon each uniform time engaging the distintion of local atthereties used of such schemes us are contemprited. The estimate all projects for water supply of populous forms and empty from all sources, whether for my gattern of ris general purposes, and whichen undertaking by Government or by others

acting independently or under Government

(f) To examine all dramage schemes, whether for extended areas or for municipalities, towns and cantonments

(9) To examine all plans of military buildings for the accommodation of troops all hospitals, lunated asylums, tails, churches and other public buildings of importance for which standard plans do not exist, and to report on them as regards site, aspect, water supply, dramage, ventilation and general using iii) To advise on all sites for stations permanent or temporary, for brunches, bespitals and their outbuildings, for brunchs and their necesses, for offensive trades, phrees for the dispectal of the dead in or in the intenditive neighbourhood of earl stations or multiple granting, singulater yards,

latrines by stalls and such I ke, and pilgrim encami ments

(s) As regards conservancy to advise upon the general arrangements for the collection and disposal

of surface refuse and house sen age (j) To examine committee proceedings and reports on suntery matters, and to see projects and plane relative to such matters I eline action upon them be taken, and before actual nork bas com-

meneed When inspecting a munic pal town, to note in detail all samitary defects in drainings, watersupply conservincy &c, to draw up a brief report pointing them out, indicating the dangers peoplar to locality and position, stating what improvements are most argently required and how they may best be earr ed or t

(/) To report to Government how far suggestions made have been adopted, and the character of the work done

(11) To tabulate the district returns of runfall and sub soil water level

To supervise and curry out the administration and executive duties connected with vaccin-(n)

(c) To unilyse all samples of water forwarded for examination, and, as far as possible, to conduct local analyses

(p) To preprie and submit an annual report dealing with the vital statistics of the presidency, showing in prescribed forms the births and the deaths from various causes, more especially from cholers, small poy, fevers, bowel complunts and accident or violence, showing the the details of accuration, and of saintry worls, civil and mulitary and reviewing the events of the year in their relation to the public health, and to similation generally

I lentement-Colouel D B Young Officiating Controller of Mintary Accounts Bonds v (Controller's Office.)

Questions and references regarding pay and allowances of the army, striff and departments under the mulitary department

Ditto persions and g stantes to the army and civil establishments of multary offices and departments

D to funds-military, medical and Indian service family.

Ditto prize moneys Dutto establishments, additions and alterations in questions and references regarding passage and passage money

Ditto travelling expenses

Questions and references regarding commissariat cervices, stores and supplies ditto

Ditto ordinace Ditio medical ditto Ditto barrel ditto Ditto clothing ditto

Ditto stationery supplies to military officers and departments

Ditto all proposals involving increased expenditure of each or stores Ditto contangent expenses of all descriptions

Ditto cantonments, grants in aid to

Preparation of the annual budget and the prelaminary revised and regular estimates for inditary services and supplies

Ditto of the explanatory statement of differences between budget and actuals

Ditto monthly statement of additions and alterations of establishments

Ditto all other estimates and st. tements called for by superior authority connected with multary operations, or cost of particular arms of the service, departments, &c , for back periods, &c , &c

I—Pvy and Indan allowances, British pvy, staff and command, office and contract diborances, fullough, pvy and leave allowances, components for losses and rations, domaino, latch pure money, messing contributions, detection, mess, monosite, outfit, interpreters, writnesses, domained officers, and fully clustered and lowrest authorized for commissioned officers, medical officers, troops, regimental Major W Perresu Cammuter Pay Department, Bonday

followers unattached lists and medical subordinates of the European and Native army army staff and

commands, departmental officers combatant and medical warrant officers, office establishment II -Sea passage and passage money to commissioned officers from port to post in India, and

to commissioned and warrant officers to Europe III —See pressages to Europe for unriticehed list non commissioned officers and individual non-commissioned officers soldiers and families of British regiments, inland dill, travelling ex penses of commissioned officers and warrant officers, mileage to all ranks entitled thereto IV—Colonel's allowances, pensions and gratuates to Baropean commissioned officers of the

Indian army warrant officers Native troops, enlisted followers, followers of British and Native troops, family pensions, Native troops and followers, pensions to members of office establishments under the uncovenanted service cavil pension code rules

V—Finlough pay, British pay, arrens of pay and Indian allowances, detention allowance, passage and passage money claume of commissioned officers warrant officers and untatabed list non-commissioned officers of the Bengal and Madias presidences proceeding to Durope we Kurrachee and Bombay

" B Young Military

The three pension pay offices, which me respectively in charge ofthe assistant presidency paymaster,
the penson paymaster, Foona crobs, and
the penson paymaster, Southern Konkan,
pay all pensons multiry and civil which are provided for in grunts

(Pension Paymester's Office)

by our passess murky must errit would not provide for in grains their payments to the pry and 20 of the multiply budget-stemate, and inches resounts of their payments to the pry examiner. They also purpose the budget estimates for their respective cruels, and a sixtistical return of passess amountly, which is required by the accountant-general, military department. The passess payments, Power cruels, also furnishes a quintely return of

European pensioners residing and drawing their pensions in this presidency for transmission to the Secretary of State

Mayor M A Rowle dson Frams ner of Comm saar at, Glothang and Barrack Accounts Boules

(1) Those connected with the audit of accounts of the commissanat department

(2) Phose connected with the audit of accounts of the clothing deputment

(3) Those connected with the audit of accounts of the burrack contingencies

(4) The first embraces changes for provisioning theory, curringe for troops and individuals, Duropean and Nature and stores of all departments whether individuals or other by land and and an enamessarite absolutable establishments and all other miscellaments supplies by the commissarite. department

(5) The second embraces charges connected with the clothing of the ramy, European and Nature,

and necessaries for the former (6) The third embraces charges for conservancy establishments for Native troops, and for those

cantenments to which grants in aid are allowed by the State for punkahs and tatties in barracks and

hospitals, &c Destrumt W. R. L. Anderson Exa n ner of Crânance Accounts, Bombay

The required list is appended -

List of subjects dealt with in Office of Leauiner of Ordnance Accounts, Poone, as rem ired by guestion 1 of Army Organ atten Commission. The audit of indents of ordnance and multiary stores and equipments,

meluding the preparation of bills for hire of tents, stores drawn on pay-

ment, lock, &c, &c, and their due adjustment.

The examination and disposal of store returns from arsenals, depôts and factories, from corps and army officers and from burrack masters including die adjustment of sums realized by public sales of stores or for stores lost or damaged through carelessness, also adjustments with other departments and Governments

The examination of reports from assends, depôts and factories, of expendit ire of materials and labor for manufactures, repans, &e

The scrutary of and report on tenders for supplies of stores to assently depots and factories The rudit of claims for purch see of stores by reserved depôts and factories

for extra art fuers &c , employed by meanals depots and factories for rep are effected to stores in use with the army &c.

Difto

on account of the field practice in the corps of suppers and miners

The check and completion of estimates of, and indenta for ordnance and malitary stores and compments required from England by the inspector general of ordinance and magazines

The disposal of preking accounts, invoices, and survey and other reports in connection with stores

sent out from Luglard The prepart on of reports when required, and of periodical review statements and general returns

connected with above

Medical Store Section

Surgeon Major P S Turnh II Exam nee of Moheal Accounts And and examination of medical store actums including that of Bembay outler's branch Verification and pricing of the annual stock findings of the medical

store deplit Bombay Examination and parang of the annual Home indent of medical stores

Compilation and pricing of the expenditure of Durope medical states for annual estimate Keeping of a legister of receipts issues and balances of the medical state depth, Bombry

Prejuration of statements of the average cost of three years supplies to characteristics over those tals &o for braing their estimates, also annual cost of medical stores supplied to civil charges for financial reports
Preparation of statements for annual review

Pile ng classification and compilation of general store accounts Audit of the annual instrument actumes of unlivery civil, maime and public works depart-

Recovery of the value of stores supplied to charatable dispensaries, private individuals and Native

Preparation of departmental accounts of other than mulitary changes

Accounts current with other Generaments

Preparation of rangal rate schedule Audit and examination of tenders and bills for stores purchased locally and manufactured by piece work

Examination of packing accounts and invoices of medical stores received from England

Co missariat Supply Section

Audit of indents for hospital supplies to multirry hospitals

Audit of indents for aticles of d et to Luropeun military hospitals Audit of d et rolls of European military hesp tals

A dit of dead stock returns and monthly wine expendit we returns of Native muldary hospitals

Compilation monthly, of the computative wine expenditure retain of Luiopean and Native multary losp tals Compilation of annual statement showing the cost of dicting patients in the hospitals for Euro-

I enterant Colonel B B Young Official up Control v M y Accounts (Accounts Branci) Boss

pean troops

Account of the multirry receipts and expenditure of the presidency Accounts current with the Home Government and with the civil and mint 1y departments of other presidences and provinces

Accounts of the In line troop trusport service Invoices of stores from Lagland

Regimental savings banks

Family and miscellaneous semittances of officers and soldiers

Cuptan i H Comper Presidency Paymester Bomb y

The subjects dealt with in this office are the issue of pay and allowances to the Bombay army (with the exception ordinarily of payments to British regiments) the recovery of Government and office claums, the final settlement of pay of all officers (Bengal Madias and Bomlay) proceeding home and arriving from England, the issuing of chee es on all authorized treasuries, the

rendering of coounts, and the various correspondence consequent on the same Colonel J Timeker Superintend cut Army Clothing Bourkay Obtains f om England on indents, clothing materials, soldiers' neces

sames and books Supplies a must clothing to-

the British and Native troops in the Bombay presidency,

the Rapputum pregular corps five in number the subordinate makeal department tent liseurs

Miles supplies on pryment's uch as a crit-cords &c., for Native infinity requirents, and serge or other clothing exceptionally required by British regiments, and occasion lly meets demands from volunteer corps

Supplies helmets to regiments and diafts arraying from England

Supplies boots to the Butteh t cops of this presidency, and, when requisite, to troops of all presidencies newly arrived from England

lorwards regimental necessaries on their armal from England to the indenting officers

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Br gather General G Borrons Quarter-Vaster-General Bombay All subjects connected with the surpy as regruds movements, quartering of troops in entonments or cruips multitary buildings center met l'unde sud boundaires, sites for all buildings in cuitorments, lock hospitals, endernes, evintary menues und conservancy urange ments for thosp and evintorments multitary survey sand teconamissiones

Colonel C. O. Mande, Judge Advecate General Posts

The subjects dealt with in this deputment are —
Courts martial, courts of inquiry, courts of requests, courts of
inquest. Also questions relating to military and civil law, which
occasionally arise, and on which a teport and opinion is regulated

 $2\,$ Can you make any suggestions towards reducing the amount of clerical labor ?

Colonel J I Willes, Commessary General Be cal. Yes Next, let the soult department be informed line it is belief for Government to leve a few name than, on promple, to have the money recovered or written off after voluminous correspondence and at a cost in pestige, statement, and I when far neverse of the amount at rease. Let the objection he made by all means, but when it ne dest that the orday in recovery will be out of all proportion to the amount, it need before to admit it do now.

Scondly, I believe \(1\) large solution of wolk would follow the division of the present unweight effect of the examiner of commission abounds \(1\) delaufate and by large code examiners,—two on better time. To these offices continuous about \(1\) the large fittees and the seaf direct metal of through excess recommission of offices, no primary quids in excentive commission of fittees of these being processor, and it is only a displacation of work to check them in executive offices, and seekeck them in the examiner \(1\) The consumer would give commission and large constraints, and \(1\) which the excentive solution and \(1\) and \(1\) With extrainers in eary position minimistation with the executive solutioning reconstript, it may be found panetosable to runge that spends deal stock accounts small lies sand direct to the exvolume metal of through executive commission of first \(1\) At present the quality of such accounts is small effect sheek. In the executive collection of overly will be found in obeliang systems involving unnecessivy deplotion of check. At present the count is small effect sheek in the executive collection of overly will be found in obeliang systems involving unnecessivy deplotion of check. At present I could not premise this scale itself to executive office, and the process of the contraction o

I could not premise that sense intent to execute ounces would cannot be leading users once estimates, but it estimally would obtain the present present generating non-receiving them.

Thirdly, the course now adopted in devling with tendors would move be tolerated by a practical run with an extrema business. I be founder, with a comparative sitement, or forwarded by executive communicative of the communicative promises of communicative communicative communicative communicative communicative communicative communicative communicative communicative consideration of the considerative consideration of the communicative consideration of the communicative consideration of the communicative consideration of the consideration of the consideration of the consideration of the consideration of the communicative consideration of the communicative consideration of the cons

tion was experiment.

Theriffy, let it be known that for the complation of tables of calculations, or for complations-of general neckanes, or for suggestions when would materally reduce weak, a bonus well be given by forestment. The amount to be in proportion to the value of the computation complation. Diffy rapees' reward for a suggestion or complation which saves even five manufact word in each of a large manber of offices as well had out, more especially it indices others to give Government the best?

of their knowledge and expension, which at present is largely throun way for wind of encounties.

ment to turn it to precised use. Under this head it will not be out of place to bring to notice the disadentiages under which the department blows for want of a code and a vocabulary of commisserant supplies. Apart from the measurement of being without these words of reference, much time is bot in searching for orders or procedure through notes for what noeld be found at once in a code.

Triff by these are samples of some of the means by which work might be reduced or greater efficiency ensured. To deal with the subject in detail, Government conjumplets, as far as the commission to department is concerned, the appointment of a committee, and doubtless the very best results will follow their recommendations:

Major General & Campbell Off cutting Inspector General of Ordannee and Magranes Bo gul I can wale, none byeard these which the adoption of the system of prenung maints, useen addelong recepts estimate requisitors for, proposed by the special committee on ordance, 1877.78, will without provide There is no doubt but thirt, as soon as the principle ledgers and forms which under flast system will be brought ratho use, the mounts of chernal labor will decrease, but the introduction of the price will be supported by the mounts of the contract of the mounts of the price of the principle of the principle of the price of the mounts of chemical labor. The substitution of wome more officient or the mounts of chemical labor. The substitution of wome more officient ordaness olace under the mounts of the price

S rgeon Seneral J H Ker Innes Brotath Med Lei Department, as I Pruc pul Ved cei Officen Brotal Perce m India. Greet meouvemence is already crused by much of the essential routine work of an office having atthe to be dispensed with altogether, or carried out only in an imperiest way, owing to in unadequate estiblighment, as for example, the retention in many cases of short abstracts

only instead of regular transcripts of reportant documents invente the effect in original, the correction of the various regulations which cannot be duly crimed as, &c. &c.

The inadequacy of the present establishment to cope with the great increase of worl in this office during the pest few years will be consultated in the course, when the reconstitution of the office on the

reorganization of the medical services will be taken up

S rgoon General J P Beatson, A great deal depend
Indian Medical Service Bears, A great deal depend

A pret deal depends on the individual character of the head of the office. He wise of official notion may necessitate extreme care, so that marties receive equit pairs and time as graver cases the argument heap that it may memerate an insignificent inconcrud an any preve take keystone of whole despitatid. Some will not a tilter any original to leave their office, but invursibly trisonant copies. Others are more rigid in their method of trius-vising issues, by presing orders to more rigid in their method of trius-vising issues, by presing orders to one

If some strange the copyring-process we not now commonly in use. Every necessar's office is supplied with them, and in the pubble offices much time, labor and paper would be concentred it only they were confined to their glot uses, it to return a record of these documents only which engirt to be preserved but of which probably not one in tereby are ever called in again. Post-carrie of an official style ought who to prove concentral. It should be remembeed that these are interests when howalth be affected by reference cleaned have Too some times upon danges would be very monuments. I have often to draft a latter which has to be copied ten times, one to each deputy surgoon general.

Dr J M Con agham San tary Commission of the Government No. The circuit lai or is already reduced as far as possible. The general branch of the office consists of only times circles.

Colonel T B Harrison Central ler of Mil lary Accounts, Bengul The week of the department has measured very much of the year and I feat there are possible measure of releventy the mount of educual blue until all the account offices are concentrated in one limiting, so as to edunt of personal communication between them. At present, in, consequence of the offices being losted in different buildings at consistence distinction on from the other communication in the sarreliset, matters has to be caused on in writing, estanling not only much eleveal labor, just delay in the centher of the work.

Major O R. Newtoard Ac constant General Military Depart trous This is a point which constantly engages attention in the course of current world, but I have no general suggestions to often at present

Celonel B Walter Super at d ent a d Agent Army Clothing Bengal No, I regret I cament make any Where this was possible at has been done already and to too great an extent. The result is that this depirtment is underbuilded.

Color el J K Couper Darector of Army Rea comi Operat on s

No, I cannot

J H E Hullen Faq General Superarter leat of Horse Beedeng Operat our Considering the subjects that have to be death with in this object, much, no relation in the amount of clernel labor can be suggested. Indeed requests from the assistant separateleafs for a breckled population, Purply, have been received to recommend that mother clerk-should be element of his officer on securit of the presence of wal. This unit has been, since the rangementing of this department, to reduce chernel labor to a minimum or minimum for the control of the comment of the control of the comment of the control of the comment of the control of the comment of the control of the comment of the control of the comment of the control of the

Major General for P S Lamester. E C B O B I Alljutant General in In his With our present system of army work, which centralizes everything at head quarters, I am quite estissful that any reluction of establishment would seriously unpur efficiency. Indeed this has been proved

during the his passons council by field operations, when the deals held to work only an life, before and after regular diffice looses, often on the work of the period of the regular difficulties of the period of the period of the period of the period of the period of the carbon and the advantage date of the carbolic and the department of the only and field by excelling more responsibility from divisional commenders (thus learning references to commender in cheef) and by unadigentions of head quorietes departments wasks one roof, by which (spat from any other carbon) much diplication of work would deep peak.

Colonel C C Johnson Offerstang Q a to Mas er Gereral as Judus, Whenever possible, typographic and hthographic presses are utilized to save 1 hor

Much derical labor might be swed if the army head quarters offices were all under one roof at Simla

Colonel A. H. Murry Deputy Adj tost General, Royal Artillery on Ind a. No, not under the present organization of the three presidential

armies and as the work is now everild on

If decentribation is carried out, and India divided into aimy-corps
encles then I would hope to see a person of the details, which now
have necessarily to be death with in this office, removed

Assuming that to each army corps citele a communding officer of royal utility with the rull, of largeting general would be rap outside, all the patencieurs of non commissioned officers above the rull, of corport, which no rives to be carried out in this office, would be carried out in the cately branches, or , haves, field and gension atteller. Minor questions of discipline, clothing, foregoing the community of the community of the control of the control of the community of the control of the con

On the older hand the correspondence which now takes pleached seen the deputy adjustant general royal arbitlery. Horse Gavards, and the commanders in clark, Marka and Bonshury, would, were the commanders in clark of the minor proclaments solvabled, necessarily be sent to this office, and which would be the channel of communication between the general officies commanding aim, sortpe codes a lactive and the Direct Gavards on adulty adults of succeeding a commanding aim, sortpe codes in Indian and the Direct Gavards on adults adults and succeeding the sentences and the offices of Marka and Bonshur for minor questions commented with these presidences.

In this case the abolition of the assistant adul'ant generals, loyal artillery of Madras and Bomlay, would follow as a matter of course, and I anticipate that my office, which is at present overtixed, would be somewhat schered

Dvery endeavout by using printed forms of memorinda and letters for communications of a similar nature, &c , has been made to reduce clerical labor to a minimum

Colonel I Young Julge Adra

No, this has been already attended to

F F Coll as Pog Prancipal Ve termory Surgeon Bengal Ar ay

None, there is an annual tendency to morease, and will tend stall more so if the transport and commissaint annuals come under depart mental supervision

Major A S Hunter E.A Dar of Garrison Instruct on in India Wayer H J Hallowes Inspector of Gymms and I die I do not think it is possible to reduce the amount of element labor

Major F W Dunn Sagern tenlest British Army S books The element labor is not great but it cannot well be in any way reduced

Major P. W. Dunn. Saper a tea leat. British Army S. books Major P. H. Marel. Super atend ent. No. 4 August Sel oals. Unitedla. I capnot

That official post cards be introduced, authorizing post-cards as not less respectful than, and in this sense on a par with, telegrams. The only information recented from regiments is—

One quarterly return with the school-master's explanatory report thereon

thereon

One annual return of the sum lost kind, one line of totals abstracted
from other registers

These are made out by the school-masters
No reduction is possible with regard to efficiency

Calon 1 P. A. Moore Acting Commastry General Madras To present a possion was regard or enterestly. The increase of correspondence and element labor in all offices states closely from two causes that, the greate speed, by mans of rulevus and strainers, which postly communication is now carned on, and, second, the centralization of departments requiring references to be made to have durated as enthetics of muor importance, and the introduction of efficies of central, calling for explanations, statements and returns, and the exhance of consensation of the control of communicatively in this grade of the control of the control trial in this grade of providence of the control of the control trial in this grade of the commentary country of the control of the controller of the ministry reconstitution but made to the controller of unitary reconstitution and the controller of unitary in the controller of th

(1247) [Appendix IV

Extract from the Proceedings of the Government of Madras in the Milster; Department, No. 1298, dated 27th April 1874

Read the following -

No. 834, Juted Fort William, 17th April 1874

From-Captain O B Newhards, Assistant Sees to the Govt of India, Mily Dept. To-The Controller of Military Accounts In returning the enclosures of your letter No 152, dated 6th April 1874 reporting that

you have assued instructions for the admission of the charge for marking 146 country blankets assued for the use of the men attached to the Landour depot during the winter of 1872 73, I am directed A local trans pended in the center of the blanks, the capturing out that the Government of Individual the capture of your action in the nuttier and stuction that making its proposed of all actual burnel.

blankets assued for temporary use during exceptionally cold weather

No 336

Copy of the above and of that to which it is a reply, and of its enclosures forwarded to the Secretary to Government, Fort Saint George, Military Department, for the information of the Right Hon'ble the Governor in Council

No 152, dated Calcutta, 6th April 1871

From-Colonel F D Arkinson, Controller of Military Accounts,

To-The Secretary to the Government of Indra, Mulitary Department I have the honor to forward herewith, in original, for the consideration and orders of Govern

ment, letter No 2146 dated the 25th March 1874," from the commusery general, representing the With a closure measury for marining new blunkets issued as extras to troops, modils to present their being acknowed by the men for than 60 or and to athi, that I thank it is very describe that the bland as should be marked, and there seems to be no objection to mask thou mu the numer monosed by the own meaning executal, our, to have a lowest arrow punched in the conner of the blanket, the odges being

sewn up 2 I beg to report, for the approval of Government that I have instructed the examiner of commissariat accounts to admit the charge of Rs 8 12 for marking 146 country blankets, assued for

the use of the men attached to the Lundour depôt during the winter of 1872-73 The return of the commissury general s letter and its annexure is requested.

No 2146, dated Fort William, 25th March 1874

Trom-Colonel J I Willis, Commission General,

To-The Controller of Mulitary Accounts

I have the honer to attach a certificate by the officer commanding Landour depot that 146 barrack blankets supplied by this department as extrassues were marked to prevent their being ex-

changed, and that the marking was essentially necessary
2. The cost of marking the blankets, Rs. 8-12, has been retrenched by the examiner of com-

missariat accounts in the absence of any authority for the measure

3 The setzenchment is consect, but to present new blankets issued as extris being exchanged by the men for their old ones, the step taken by the executive commissant officer was advisable and I trust, under the circumstances, that the expense mearred will be admitted, and to this effect I solicit that intimation be sent to the examiner 4 I would also propose that Government may be moved to sanction the marking of barrack

blankets supplied as crita issues as a general practice, as, doubtless, it would prevent exchanges by the

men, which might not otherwise be detected
5 To make the marking uniform and to prepent martrison, a broad arrow might be punched on the corner of the blanket, the edges being seun up, should they fray

Certified that the commissarmt department, Landour, supplied one hundred and forty six country blankets for the use of the men attached to the Landour depot during the pist winter. These blandets were marked by the commissionat to prevent then being exchanged, which was considered essentially necessary

JOHN ANGELS, Color el, R 4, Commanding Landos r DenGt

The 16/k June 1878

ORDER THEREON by the Government of Madris

Communicated to the commissury-general and the controller of multary accounts

Col. S. H. E. Charmer in charge Ordnance Department, Madras No The establishment of this office has been so much reduced, that it is only by extra attendance of the clerks that the work can be kept any thing like current Surgeon General C A Gordon M.D OB Prime pal Medical Officer Brit sh Forces Madria None, except that administrative method officers of excels might be made solely responsible for all indents for since, &c., pussed by them. At present such indents require the students of the lead of the department, and necessarily ential a good deal of work in heaffley It is, however, questionable whether the transfer of responsibility above referred to a desarable

Dr H R Oswald Act og Sur geon General, Ind an Medical Ser rice, Madras There are only three copyrsts on this establishment and the introduction of a printing or of a copying machine will not be attended with

Dr W H W Corn sh FROS S. mtary Comm so oner for Madrus Colonel J W R deout, Controller of Mintery Accounts Modrus tion of a printing or of a copying machine will not be attended with any financial saving

No

Pay Examiner Madris

I cannot recommend any reduction. In the controller's office, the quantity of work depends very much on what emanates from other departments. At present the hands have generally to work extra time

Pay Examiner Madmi

The elerical work has been reduced to a minimum I am not able to suggest any further reduction

Fide proceedings of Government,* No 2996, dated 12th Septem-

Draw ner of Comm starsat, Cloth ung and Stud Accounts Madras let 1874

The clernel labor has it uppears to me, been reduced to a minimum, by the introduction of suitable forms. I can seggest no f wher reduction on this subject I would later to letter from the controller of ministry accounts dried 13th August 1874, recorded in proceedings of Govern-

Prammer of Ordinance Accounts

This subject has been lately considered, it is believed, by the special ordinance committee, and it is not yet I nown whether their suggestions will increase or otherwise the clience labors of it of office without as present almost beyond its strength—indeed so much so that long continuel provide of working extra hours ful to overvite the work.

Examiner of Medical Accounts Medicas I do not consider that my reduction can be made

ment" No 2996 of the 12th September 1874

Exam ser of Medical Fund Accounts Madras

I do not consider any reduction possible

I do not consider it possible to make any reduction

Examiner Madris Middary Fin da Accounts Madras Military Accounts Department Accounts Ben ch Madras

It is understood that in other presidences, deponds and within-wait from the Government exemple behas to evaluated from the unitary accounts. If this was done in this presidency, it would afford a slight racket, but not sufficient to warrain a utleration in this present estall laminest with chi is now supplemented by an extra establishment same towed for the purpose of working un arrain of invest-departmently, home, and book adjustments the first from 1860 66, the second from 1840 65, and the last from 1951 69.

Pres dency Pay Office Madras

The establishment of clerks was reduced on the 1st April 1879 to the smallest possible number computable with efficiency.

There results means to reduce the amount of alonged labor have

Lenterant Colonel A Servic S pers tendent a 1 Agent, Army Clothen g Madran

Diery possible means to addice the amount of clerical labor have been adopted, and I can make no suggestion towards further reducing it

Brownd or Ge eral P W Jobb Adj tant Gereral Madras No I am informed that Braydner General Stewart when he intered office of longith of mitoclauring copying press as mir no those in use at the Horse Gurds but found the mastice shortly obtaining her was the better plan w, by a mply butding the original dirtit letters for office 1000d which show it is girace the mit is of the officer who present the artist and any core eto most that were necessary, besides quoting references on the subject of the paper, the fan for desynthologing the only copy many

Major John Eu og Officiat og Quarter V ster General Ma lrus No this subject has received attention so recently as in 1878, and element labor has been acqueed to a minimum

Colonel G P B Sternel Julge Advorate Ge ral Madras Repairs on apphenens for courts until and all other papers submitted for the orders on information of the commender major consistent and the orders of the paper of the paper of the order of the order of the order of the order order of the order order of the papers and by word of mouth. There is a goat did of correspondence between the virus head quarties departments. This implies the order of the did not departments was because in the major to reduce or the order of the declared of the head quartees staff clies when order entil to between of the order order order of the order of the order of the order of the order of the order of the order

Louisensus Colonel V W Will laughly Acting Comm sury Gen end, Ben loy

Fide remarks on commissional routine by Colonel P P Mignon, the commissivy general Bembry way, now on furlough, and which contain valuable suggestions in regard to reduction and simplification of work

This subject has had Colonel Mignon's ritication for some time past but the notes have been only recently received out, 18th August inclust, were indeed forwarded by Colonel Mignon from Acies whilst on his veryage home. The remarks are drawn up for the consideration of the committee of the colonial and a Colonial and Acies whilst on his veryage home. ordered to meet at Calcutta in last October, (G R G I No 822 S, 27th May 1878) to enquire into the practiced lity of simplifying the work of the commissarian department in India, the resembly the princesses my or suspayings the vors. or the commissional experiments in india, her "resemble of which was deferred and which will probably meet this cold serion but the present seems a suitable opportunity of bringing Colonel Magnades tems prominently under notice, as from his long experience of the department, both in peace and wir, his opinions cannot fail to curry weight

Major Go cral, W S Hatch Inspector General of Ordsonre and Magazines Bombay

The introduction of a large number of printed forms has been recommended by the special commission on ordinance the use of which will, I hope, allow of the reduction of the office establishment, but until the system has been tried for some time, no definite opinion as to the extent of the reduction possible can be given, especially as the forms have not yet reached me

Depoty Surgeon General J M. S Fogo Office ching Surgeon General, British Forces Bombay Dr W G Hunter Dr W G Hunter Surgeon-General Indian Medical Depart-

ment Bombay

The establishment of station hospitals would certuinly diminish the element inhor The correspondence has to be carried on with, and references answered from, all the departments of the secretariat from all the heads of departments under Government, from the officers subordinate to the department. In departmental matters no correspondence save what is absolutely necessary is encouraged With regard to the secretarist

De John Lamedame Southry Commissio or Bombay

and other departments, no suggestions for reduction can be offered Nearly all the element labor consists in collecting, compiling, and tabulating the various returns which, from time to time, have been ordered by Government, and as long as those returns are required, so long must provision be made to exhibit their results. The forms dealth

mag gauss provision or many cannot contain their results fire forms death with are shown in Appendix A, and a converg examination of them will serve to show that their elaboration demands constant and continuous labor. There is also a great ded of routine correspondence connected with them, and in addition there is the record of promotions charges of stations, f reloughs, abstracts, and revisions for all the subordinate establishments. So fur from being able to auggest any reduction in the office work, the difficulty is to keep prec with the increasing increase of returns reports and miscellaneous correspondence. In 1870 the inward and outward numbers were respectively 1,013 and 941, and now the annual means are 5,573 and 2,524 (see Appendix B)

APPENDIX A

Sanitary Department Fortus

Statement of forms in so in the Sa intery Department, Bombay

Annual No I -Births registered in the districts of the during the year 18 Annual No II - Deaths registered in the districts of the

during the year 18
Annual No III —Deaths registered in the districts of the during each month of the year 18

Annual No IV -Deaths registered according to age in the districts of the during

during

the year 18 Annual No V -Deaths reg stered reconung to classes in the districts of the

the year 18 Annual No VI - Deaths registered from deflerent causes in the districts and towns of the during the year 18

Annual No VII -Death's registered from cholers in the districts of the

during each month of the year 18

Annual No VIII,—Deaths registered from small par in the districts of the dunng

each month of the year 18
Annual No IX — Deaths registered from forer in the districts of the during each

month of the year 18 Annual No X -Deaths registered from concel-complaints in the districts of the

during each month of the year 18

Monthly No XI —Register of births and deaths in the collectorate for the month 18

Monthly No XII -Retarn of the deputy sandary commissioner registration district of places in-spected during the month of 18

Monthly No XIII (English) — Return showing the extent of cholere in the yill at 18

Weekly No AIV (English) -Cholers report of the collectorate, for the week en lcollec

mg Monthly No AV (English) —Ramfall at the undermentioned places in the torate for the month of

Annual No XVI (Eighsh) —Statement showing the samilary improvements carried out in the collectorate during the year 18

Monthly No AVII (Luglish) -Statement showing position of sub soil water at the above hospital for the month of 18

hospital for the month of Monthly No. AVIII (English)—Striement showing the extent of cholors in the Bombay Presidency during the month of 18 Monthly No. AIX—Register of births and details in the Bombay presidency for the month.

Faccination Tories

Annual No I (English) - Statement showing particulars of viccination in the duing the year

Annual No II (English) -Statement showing the cost of the department in the

during the year 18
Annual No III (English) -Statement showing dispensity vaccination in the

during the jour Annual No IV (English) —Computative statement showing the number of persons primarily vaccunated and the number of those persons who were successfully vaccun tid in each of the under

rectinuos dell'all yers mentioned client yers Annuel No V vs. (Inglesi) —Striement showing the monthly perticulars of the vectuations per-formed in registric and sirved during the yers 18

Annu'l No VI (Ingl sh) —Striement abourng results of the year 18 , as compared with those of eich of the previous has years in the Annual No VII (Inglish) —Summary of the drivines of the deputy samilary commissioner and

inspector of samulation and vaccination, registration district, for the year 18

Annual No VIII—Descriptive foll of a candidate recommended for employment in the samitary

Annui 170 VIII—December on a visit of the deputy contant commissioner of Monthly No IV (English)—Return of vicinities by the deputy contant commissioner of the deputy contant contant for the month of the duo on the 15th department the

18 , No of (station) No X -Return showing the particulars as regards the protection and non protection in the cases of small pox also ages of the persons attacked by small pox, the number of cases, and deaths in each class

Monthly No XI (Lughsh) -Diary showing the inspections of children in villages by the deputy sanitary commissioner registration district, for the month of

Monthly No XII -Summary of the drames of the inspectors of sunitation and vaccination,

registration district for the month of 18
Annual No VIII --Return of establishment of the deputy smithing commissioner

registration district for the year 18 Monthly No XIV (Luglish) -Vreemition return for the month of , in the collectorate of showing the operations of all vacuumtors (Government local funds, Nature states mannered, and contonment), and also the vaccine operations at dispensaries

S managery are the commenced and the factor of the second of the Monthly No XV [Paghsh].—Helvin of persons isosenated in 18 (strium) dated 18
No XXVII (English)—Letter to treasury of ceas staters in the during the month of 18 date during the month statement showing the extent of

cholera m the Return showing the extent of cholers in the cantonment of d during 18 ,

APPENDIX B

several details

Statement showing for n no peres the annual number of invoval and out ward recorpts and so or n the lead que ters office of the San tary Comm: so oner for the Ge erimment of Bombay

Tear-		In rard No	0 stward N
1870		1 013	941
1871		1,929	2,158
1872		8 501	2,494
1873		6,323	2 801
1874		6,011	2,347
1875		6,460	2,982
1876		5,9a0	8 033
1877		7 757	2,908
1878		6,101	8,055
	Mems	5,578	2,524

L'entenant Colonel D B le ng Offic sting Controller of Wilney Accounts Bomba (Controller's Office)

Major W Perren B Tay D partment, Hombay Extm ner

Lecetonant Colored D B Non g Official ng Controller of Mil tary Accounts Borntay (Pennon Paymenter & Office)

tunity is taken to reduce it in the performance of the daily work in its No, neither in the system of audit, forms of account, nor in the mw 11d and outward corresponde 100

The present mode of worling leaves no room for any change likely to be attended with a material saving in clerical labor. Every oppor-

This subject was fully gone into then the separate appointment of pension paymester, mesidency circle, was abolished last year, and the office placed under the assistant procidency paymester. Livery feasible reduction in clerical labor was then made, and the office establishments remodelled, to suit the actual requirements at a saving of Rs 10 few per annum. No suggestions likely to lead to any further material electrica in clerical labor can be made at the present time

Major W. L. Rot landson Eru m or of Commusers t Clothing and Barrack Accounts, Bountary (1) Suggestions on this point have already been made for the emsurematic of the commission appointed by faint to 922 a published as Southy 1878, dated 8th June 1879.

(2) The commission, it is believed, will shortly recemble when the subject no doubt will be thoroughly conquired into All reductions of clerned labor which are fersible without the sanction of Government are dways made as soon as they become possible

Localement W R L Anderson Evan er of Ordnence Accounts Econog I cannot see my way to making any suggestions for saving elerical labor at present. Not long ago Colonel Young, when in charge, went fully into the matter, and made every possible adjustion

Support Vajor P S Turnivall MD Exam ner of Medical Accounts Box hay No reduction in this amount of element letter is, I believe, possible This operations of the Bonday method store department have been greatly extended of Iria years, not meetly in the number of charge supplied, but in the menuficture of drugs and instruments, thus extailing much increes of work in this office without oldusion to establishment, and this increase is helely to continue in the future in even a greater degree that in the yest.

Legiconst-Colonel D B Young Offensing Controller of Military Accounts Bombay (Accounts Branch) Reduction in electeral labor has lately been made as follows — Copies of vouchers to accounts current discontinued

Copies of memoranda forwarding forms, discontinued
Indexing cash accounts, accounts current, and other returns, discontinued

Captara H Cowper Presidency Paymester Bombay

The reduction of clerned labor in this office has been so much kept in view of late years that, under the existing system, there is, in my opinion, no unnecessary detail in the work

Colon I J Thinker Superintend on t Army Clothing Bombay No unnecessary desired labor is carefully guarded agrinst, and printed forms are used to the utness predictible extent. This question has been reactedly considered and the conviction has been arrived at that no room is left for reduction

Broga i er General H F Brooke Adjutant General Bombay The only way in which element labor in staff offices can be reduced is to rasign to every officer in command, whether of a regiment statum, brigade or division, a reasonable degree of discretionary poner, and then to require all to perform that own duties, and accept them

com responsibilities, and refram from referring the most trivial mytters for the decision of larger withoutly. As no summarized present of the decision of the present of the trivial present of the present of the trivial present of the present of

Brigadier General G. Berrews Onarter Master General Bombey

It is considered that no improvement can be made in the working of this office

The element work might be abglifly reduced by concentrating the charmeder it of a sufficiency of the control of

Quarter-Vinster General s Judge Advocate General s

Colonel C O Mas de Judge-Advocata General Pous The amount of clerical labor cannot, in my opinion, be reduced

3 What is the number of officers employed at head-quarters of your department, and the division of duties entrusted to them?

Colonel J I Willes Commusery General Bengul (1) commissing general, (1a) resistant to the commissinggeneral (3) deputy commissing general, lower circle, (3) executive commissions officer, Colonta executive, (4) generalls one or too probaofficer, store and shapping executive, (6) generalls one or too probationess learning their work. Commission general in the general supervision of the department, deputy commissary general that of the lower circle (Calcutta to Allahal al and Jubbulpore and the executive commission officers have charge respectively of the Calcutti and store and shipping executives

Major-Ceneral N Campi ell Officiating languette General of O duance and Magazines being l

By the head quarters of the ordnance department, I presume as meant the office with the inspector general of or mance wherever he may be Du ing such time as the Government of India is at Simla, as a rule, the deputy inspector general of ordnance and the assistant to the inspector general of ordnance are left at Calcuita Ti e inspector

general accompanies the Government to Samla Diring proteins of the session of 1875 and since the beginning of the present session is which the mugicition to Samla took place, the assistant to the majector general has been allowed to accompany that officer to Samla took place, the assistant to the below to be allowed "grun, as it has been it led that the next of preprinting and checking the annual indents on England has been done very effic ently hithe to without the aid of the personal assistant which was accorded on the representation of my producessor in office, who reported that without such and be could not get through the worl required to be done

At present the assistant to the inspector general is the only officer employed at head quarters. To expecial duties of that officer are to examine and check indents, proceedings of committees on The expectant unities on 1 to other in the ventum on the most processings of committees on the stores condemned by regin ents and britteners, and to report on the results of munit bords on trins &c. Fig pinent tilles my prepared and t builted by the vession in unspector-general below being adminted to the inspector goal . Any questions referring to the details of enhance minimation, and the inspector goal . Any questions referring to the details of enhance communitors, and stores which may be required to be drawn up for new armaments are usually prepared by him and in general he gives all the and Ic can to the inspector general, occasionally by drafting orders or letters under the inspector general's instructions, and is the medium of communication between the inspector general and commissance of ordinance

Surgeon Ge enal J H Ker In et Dr tish Med eal Department and Pr se pal Med eal Othorr British lorces in India

Three commissioned and one warrant officer of the subordinate medical department-all at head quarters, Simla-namely -

1 The surgeon general and principal medical officer

2 The secretary to the surgeon general
3 The statistical officer to the surgeon general whose duties are alrealy indicated by their designations

4 A warrant officer of the rank of a officeary is permanently attached to the office, with a view to afford the department that all in all matters connected with the subordinate medical department and the internal economy of British hospitals, their working, supplies, equipment, establishments, &c., which he is specially qualified to reader from a long cour c of technical training therein

Surgeon General I F Bentson, Indian Med cal Service, Bei gal.

There are only two officers employed at the head quarters of the Indian mode d department, to the surgeon general and its secretary.

The division of duly applicable to the former has dready been defauled in answer to question 1. In Ind. he is responsible to the Government

and to the comman ler in clief that all duties which are laid down for almon to the executive, and subserd note and each office s are many to performed. He a clear the

president of the standing medical committee The searching is the nilminet of the surpron general. He prepares correspondence for final op-mon orders he say crosses the office set third must read by a control denn officer dorrespondence acquires that meaning personal requirations with the entire service where he say a platfolk me enabling the surgeon-general to administer alike in the public interests and with a fostered individual energy and him The secretary is also responsible for the statistics of the Native army the propuration

of its annual report and all other periodical returns Dr J M Canagham Som ary Comm sugner with the Gove much

There is only one other officer besides myself and that is Dr. Bryden, who is in charge of the statistical branch. He recorse the returns of sethines and mortality among Duripean troops, Native troops and pi soners throughout the three presidences and progues from them the most complete series of annual statistics which are ap pended to the annual sanitary reports issued from this office

Colonel T B Harrason Con troller of Whitney Accounts He gul

There are twelve gazetted officers employed at the head quarters of the department who are employed as follows -

(1) The controller

(2) The assistant controller (3) Military accountant in charge accounts branch

(4) Priminel, commissivat recounts

(5) Lxammer, pay accounts

(6) Second examiner pro accounts

(7) Examiner, ordinance and clothing accounts (8) Examiner, medical and fund accounts

(9) Assistant examiner, fund accounts

(10) Lyammer, marine recounts (11) Prymaster

(12) Deputy paymester

Major O R Nov march Account ant General Military Dopa tment

Two namely accountant-general and assistant accountant-general No set distribution of duties is possible, the work of this branch depending chiefly on the description and number of cases received

Col B Walton Supit and agent for Am y Clothing Beograf This question has no bearing upon the army clothing department.

Colonel T & Conpor D meter of Army Remon 1 Operations There are no officers at the head-quarters of the department

J H B Hailes E q Central Super nimitat Heres Spending Operations There are two assistant superintendents in this department—one statumed at Happen in the North Western Provinces, and the other at Abbataland in the Fourph. The barest breeding districts of the North-Western Provinces and Regulasan recognered by the former,

Operations

at Abbutahed in the Punyah. The horse breeding districts of the North-Western Browness and Rapputana are supervised by the former, and those of the Punyab by the latter Application his been recently made to the Government of Indra for more assistants, as it is found impossible for the two assignate to satis-

Mayor General S. P. P. I mms don, E. C. Z., C. E. Adgutanti-General up Indea factority perform the duties of their offices

I have five officers at head quarters, est —

Deputy adjutant-general

Pirst assistant adjutant-general.

Assistant adjutant-general
Deputy assistant adjutant-general, and assistant adjutant general for

Calcool C. C. Jel uson Offic chang Quarter Master-General in India. muskeiry
The lists of subject headings (query and answer No 1) show the
work entrusted to these officers

 $\Gamma_{\rm tre,\ ter}$, quarter master general, one deputy, one assistant, and two deputy assistants

The quarter master general administers and superintends the whole department

The deputy and one deputy assistant are at prevent employed on intelligence branch work.

The assistant and the other deputy assistant each conduct the

ordinary work of a suprante branch of the office

A separate intelligence branch is about to be established having
because of ameliand by the Secretary of State for India. The staff will
consist of—

nsist et→ 1 deputy quarter myster general

I assistant quarter master general or a survey officer

1 deputy assistant quarter master general 2 attached officers

Colonel A. H. Murray Deputy Adjuta t-General Royal Artiflery in India. Two—d deputy adjusted-general, and a deputy assurant adjustmatgeneral. The littler receives all evers, deals with those relating to his department, such as proceedings and transfers of two commonweal officers and the proceedings and transfers of two commonweal officers are all the proceedings of the commonweal of proceedings and the proceedings of the commonweal of the proceedings of the commonweal of the competition of the processing all proceedings of the commonweal of the competition of the best of hard others are passed on

Column J Young Judge Ad recots Graemi Bengul One,—the deputy midge of weate general, who full as the principal sines in seasoning and septiming on Dissipation and Netwo devicest and seasoning researchers and seasoning researchers and seasoning the properties and seasoning the project velocity general with drifts on regions on such cases as may be note over to tim. Dering the dissince of the judge advocate general which the dissipation which the desired of the judge advocate general with the communities which the generally retained it Sunfa, and rejeins to references from the Simit hunch of the adjusting-general is office.

F P Colless Esq., Prine pal Voleruncy Surgeon Bengal Arts y

at The principal veterinary surgeon only, who has the sole working of the office

Vajor A.S. Honter P.A. Deceier of Compute Instruction to Ind a

I um the only officer emplayed at the head quarters of this department

Mayer H T Hallowes, Inspe tot of Cynnant m Ind a I am the only officer at the head quarters of my department

Major F W Denn Superm (erolent B sixel drm) Schools The number of officers is two—the supermitendent and the assistant supermitendent. The supermitendenthris the dutes detailed in marier I The restants appendiculated as-visit in the shore furth crop tone of the general supervision), and while the supermitendent is whent on the tours of inspection, takes canno charge of the other referring to the supermitendent with unstater is in does not feel humelf authorized to

Major F II Marsh Supdi Antino Serry Schools Univila No other officer is associated with me

deal with himself

Appendix IV]

Color el R A Meotre Acts g Comm ssary General Madans The head quarters office consists of the commissing general, the deputy commissing general, and one assistant. The office is divided into several branches, and each officer tilles a certain number under his change, as may be arranged from time to time by the commission general.

Colonel S II F Cham er in charge Ordinance Department, Malms Two officers employed at head quarters, w., inspector general and deputy inspector-general of ordinance and magnatics

deputy projector-gener i di onlivanos and mey unive.

The insported perior live rigine of ontion and supervision of the deput intent. de let present live in majoritud commission. Trequired by Government, and with cill impositive documents. All riports, liktiers, &c., pres through the deputy before the mission to the important commission to the important commission of the important perior. The deputy inspector general curvatures exposed supervision over the indeut section of the office. The number of indeuts, with letters selving thereto, recoved in this office it by trev wa §,543.

Surgeon General C A Gordon MD CB Prin igol Medical Officer, Bertish Forces Madris One only, a surgeon major, who acts as secretary and statistical officer. His duties are as follows, or —
To conduct the routine-work of the office, to supermitted the

stabilishment, and to sear the suggeon general or my vey the latter may draw the suggeon-general or my vey the latter may draw the metaculous of the suggeon-general is conducted in the suggeon-general is conducted in the suggeon-general is even to the suggeon-general is the proposed of the suggeon-general is the proposed of the suggeon-general is defined to the suggeon-general is the proposed of the suggeon-general such periodical and special statistical restates a may be exquired by the departments of other endouries catallet to be furnished with such returns from the suggeon-general is of e.g. and a shell responsible that the 'distinct records of the department are complete and in good order. In the shearest of the suggeon-general of Octua mand, or while on impection or other data, be holds constanted communication with latt, and conducts all necessary correspondince with the several departmenting, under his special instructions.

Dr H R Oscold Act og Sur geon General Indian Medical bervice, Madras Only one officer, the exercity, who shaves the more unportust duties with the suggoungement, compales he share of the annual reports to Government, superiors the preparation of all stributes and returns, attends to the periors and promotion of mended officers and suborducts, it exps. regarder of applications for appointments and of quadrifications of medical officers, and easier that the same way to be considered to the surgeon general also holds have repossible for the officers, and promotion performance of the entire work of the officer.

Dr W H W Com sh PRCS, Su stary Commune omerfor Modrus Colonel J W Ruleout Controller None

of Mil tary Accounts Madras

Prosidency Pay Office Madras,

There are eight officers compaising the department in the Madris presidency, and their duties are detailed in the reply to query No 1.

L extenant-Colonel A Scarle, Super attendent and Agent Army Clothing, Madras There is only one presidency parameter, whose duties are always performed at the presidency form. He has no restants of any land, either at head quarters or elses the most of the operations within the premises of this department, and the only officer employed is the supermises of this department, and the only officer employed is the super-

Br grid er-General P W Jebb, Adjutant@eneral Medras mtendent and agent

Three-najuttut-general, deputy adjutant-general, and assistant
adjutut-general. The work of the office is divided into two divisions—
one tile in by the deputy adjutute general, and the other by the assistant
adjutut-general. The answer to question 1.

Major John Entry Offic sting Quarter Vaster General, Madras Two—the quarter mestar general and deputy quarter mestar general. The quarter mestar-general tales up all subjects that have to be submitted to the commander in chief, and exmesses a general control over all the work of the office.

The deputy quater master general assists the quarter master general nathranches of the office work, but has more specially to do with those that are generally used of deput mentally, such as Nos 6 7, 9, 11, 12, 13, 14, 15, 16, 17, 18, 24, 20, 31 and 32 of the reply to question 1

Colonel G P B SI crard Judge Advecate General Ma Iras

Only a single officer, the judge advocate general. His duties and responsibilities are not shared or divided, he is always at head quarters

I sentement Colocel M W W Do u,l by Acti g Comm ssary General Bombay Two officers, 212, the commissing-general and the deputy commissing general, are employed at the head-quarters of the department

The commuserry general's datase compuse the disposal of all matters connected with the general administration of the department

The deputy commessur-general is charged with the general interaction of the deput ments are general in charged with the general interaction of the work, performed in the commissury general collice, and during the theence of the commissury general contents, and the state of the commissury general contents are general to report submissions to the commissury-general. The deputy commissury general is spoortly outbusted with the duty of scrittmanny itsults of the commissury general of all details which would interfere with his performance of the greenfadimentations would of the department of the deputy commissury-general also insports executive others when specially deputed by the commissing general

(1255) VI zibrecuk IV

The arrangement above detailed dates from 1863, and was recommended to Government by Colonel Potanger, c 9, then commusary general extract from whose letter to Government on it esubject (No 916, dated 23rd June 1868) is given below —"I consider it to be of much importance subject (No V19) sures and V100 1805) is given never — I consume it to be of much importance that my measure should be the officer next in departmental rank to my-eff with whom I can freely consult when I might heatist to seek the opinion of a purior, and that the departy commission, general should at all times be perfectly conversant with current departmental business and correspondence "

At the tune Colonel Pottanger wrote, a deputy assistant commissary-general was attached to the commissary general's office to rehere him of detail duties, and the deputy commissary general

held the executive charge at the presidency

Major General W. S. Hatch Inspector Ge east of Ordennes and Magazones, Bombay

Two-the inspector general of ordinance and the deputy in-spector general. The former inspects all arsenals, depots and fretones, conducts all correspondence with Government, army head-quarters, and conducts in correspondence with Government, and industries, and the heads of other departments, gives final orders regarding receptance of tenders from contractors and il e demands for stores to be made on

arranges the distribution of camp equippes and sick carriage, and excresses a general supervision over the department

Deputy inspector general examines all indents, whether from w-enals or troops, examines and reports to inspector general on tenders for contacts, committee proceedings on condemned stores, demands from useful for stores from England and during the inspector generals absence on duty superintends the routine work of the department

Deputy Surgeon General J M S Fogo Officiating Surgeon General, British Forces Bumbay

(1) One surgeon general

2) One secretary and statistical officer to the surgeon general

(1)—The surgeon-general—
(a) He conducts the organization and administration of the British medical service, and sees to the medical and commissarrat equipments

(i) He has connected which the Government of Bonday, through the Military Department in matters affecting the sandary condition of British troops in contouments and barriel's &c In the correspondence and reports on epulamics and prevailing discases submitted through the

Secretary of State from the samy sandary commission

In all matters of finance affecting the Butash medical service, of both personnel and a steries.

(c) He is under the orders of the commander in chief in matters of disorphine affecting the

medical officers. He is the referree on medical points connected with the adjutant-general and quarter master

general's departments (d) He 15 m frequent correspondence with the commissivy general of the army, in mritiers

affecting the food of the troops in barricks and hospitals, equipments, &c , &c (e) He has also to correspond with the director general of the army medical department at home with reference to the medical officers, and to see to the preparation of the periodical rejoils and

returns required by regulation (f) And he has the superintendence, with the deputy surgeon general in Bombay, of the embarkation and disembarkation from the two yellops in the season of all thoops and invalids arriving in and leaving India

(2) -Tie secretary-(a) He las the superintendence of the office establishment of the surgeon general

(b) Conducts correspondence

(e) Ecommos statistical returns (d) Writes the various medical and sanitary reports

Dr W C Hunter, Surgeon General I dam Medical Deport most Boushay

One administrative efficer in charge of the presidency division. He inspects and supervises all the hospitals, civil and military, and murme, and dispensaries in the division, and is president of standing medical committee

De John Lumeds e Samtary Commissioner Boular

The sanitary commissions is the only officer at head quarters, and he has the sole direction of the duties of the department. There is an assistant, not a gazetted officer, who supervises the routine duties of the office. He sends buck returns for correction when the samitary of the content and expedites their trusmassion and recommissioner is on four, and expedites their trusmassion, circulates departmental papers, &c, &c. There is also a travelling analyst, an assistant surgeon, who works both at headquarters and in the districts

Lostenaut-Colonel D B Loung Officuating Controller of M l tary Accounts Bombay (Controller's

Six officers-

One examiner of pay and pension charges

One examiner, commissariat and clothing accounts, and burrael contingent charges One examiner of ordinance and barrick stores accounts

One examiner of medical stores accounts and in charge of funds office

One in charge of accounts branch of controller's office

One assistant pay examine

Major W. Petrons, Eraminer, Pay Department, Bombay One commissioned officer, the examiner, pay department who is responsible for the correct working of the office. There is also a gazetted uncovenanted assistant examiner who supervises the work of multi and correspondence, reports and references in the Native troops branch of the other

Arpendiz IV]

C min n H County Pres densy Pay Moster Bomby

The presidency payments who makes all military payments to off ce's other than those serving a sument by and to stiff in a departments of thus presidency also to off cas &c of oth a presidence passing thic gli Bon lay

Pressing S. A. T. Pressioney 1 ym ski wlo assists the promister gene lly and in a kit o 1 7 5 all 1 ers one in the pressioney tension pay encle p ovi led for in g ants 18 ad 20 of the mil ta y bu leet

Colone J Th eker Super atoms ct Army Coth g Bonlay

The superintendent is the only offee omployed in the department and he supermitteds the v orling of all branches

B gales Gener III T Boole Months to the S Months

For a adjunt general deputy aljuhunt general assistant adjunt tower assistant adjunt tower a her The adjutant general tales the general super soon of the depart

ment and pe somily on ducts all special co respondence (in addition to the s beets apertrang to A branch— locepty to quest on B.

The deputy adjutant-general his charge of the duties of B and D (Records) branch is addit on to the cor est ondence connected with a my appointments and with the furlough and refer

ment of officers of the stuff corps and local service The assistant alinta at general has elarge of C and D larneles

The assistant admits' current replications have been editioned in the replication of the

dlery and vote may A list of the si bjects disposed of by the e officers respect tely will be found in the reply to

q estron 1 Bgaler (ene al C Bu ou Q arter Mas or G coal Bomb)

One efficer the deputy quarter master gene at He disposes of To the matters and these hage of the office in the intermaster general when on to or at the preside I surce of the or at the presidency with His Lucellency the Commander in Chair

Colonel C O Mando Judga Ad votate General Poons

There are no of corse applyed at head quarters in this department except the judge advocate , ene al

What are the duties of the assistants of your department not at head quarters ?

Co onel T I Wiles Comm smit General Bengal

In commissionat charge of executives mostly one at each of the large stations where the e are Luiopean troops a desceptionally where he can be spreed one as assistant to the excentive commissin at officer of all ge executive. I suppose assistant officers are meant

Major Central N Campbel Offic at g Inspector General of Ordnon c and Magnanes Brigal

The deputy inspector general is the assistant not at head-quarters he remais at this time of the year at Cale itti and this being the period at which the work is heaviest in the department, the depity inspector general has to a spervise the preparation of the budget estimate and of all estamates returns and under is connected with the stock of the de partment the electing of ten less and cont acts the expenditure of the budget grants for labor and material in ordinance establishments andit of unuri indents the pergration of any sel statements of stock propor tion of ordnance and unmunition and to check. Il bills and estimates,

Surgeor General J H Ker Innes Bnt But Mel al Dep et e e and I ne pal Med cal Office Be tash Po ces u fid a

Ille entire office is established at head quarters, Simla, and there are no assistants employed elsewlere

S geen General T P Beatson Indian Ved a Service E agril

There are none elsewhere

Dr J M Canagian Sa tuy Commensus over thithe Government of India

There is no v properly spealing only one such assists t—Surgeon TR Levis The v voic two until the other day when one of them, Surgeon D D Cumingham was trusfered to be professor of physic ology in the Calenti Meleal College As hover Dr Lewis nas unlis still on furlough Dr Cunnuglum carries of the cutent dutied duting Di Lewis absence. Hese duties are of a purely scientifo el arreter consisting of m croscop c and oil er ol servations on the causes of cholera and other discuses. If the valuable mater all has already been collected by these observers

Colonel T B Harr son Control her of All tary Accounts Benga

The assistants not at head qua ters are five in number-Paymasters

Two Dep ity prymasters Three The forme are entrusted ti the duty of maling all mulitary psyments within the range of the several circles the latter are chiefly emi loyed paying milita y pensioners

No officers elevel for than at load qualters

This question will be answered by the replies to No 9

Ma or O R A weeasth A wounds. Colonel B Walter S pdt and Acut Arm, Clot & Bengal

C n I J K Cup D cor of Army R mount Opera ons

The super ntendent at Saha unpur n anages the depot flere and a also employed as remount agent to pu clase remoins a the Noth West and Pu 1 I districts

The aperante de tot Hupp rmm cestle lepot il ere a dle is

JHBH. In Fq Gen Superat whn - Livest Recolu Op ti tions

also em loyed to purela e emounts. He is best es a me nher er f o of the am onleast ng comm thee

The d tres of the states of the department when not at the result head greates (II aproxed What head) we to specifie Government allows as stands at high they chosen stall the local reeding distrets uspertigand and garpo elmares i cael d A copy of telor e- reed no operations no of baden time tof the A copy of 1 elor de receibre opertuous up on a variety and ten a copy of the c horse-f us and district lorse shows

M Grand S P S I was n n c n as L Adjutant Grand n Iodia

A lyss o all sa stant attic med in of committee on between 1 s general and office a con manding is igudes and stations and comm a a Sentral and other seem manding by green and sentroin and commist rut and made cludin ust at cooling. He lies the extra nation and lips attention of all set rus papers, under responde cofor a my heal pur-ters on a superist appear in ug to the rul ut nu general a leps timent (le pple tons for cors m tlfon the 1 sts of vo 1) He ec dep ty judge advocate and er ice out the one alsord stienon. He occ siron deputy decadvocate the proceed age of triandernes out t e general sorde s the eon. He attends tile ge eral on p rade and may e thous and a gener by entrusted with the obsert on of a tters of drill and dis pi ue (Q con s Reg lat ons section a paragraph 66s)

C on IC C Tolon on Offe ig Quarter Mas c G n al in Ind a

They are located at it chead quartes of div one and distrets and belong to the stuff of the ge end offeers comm ling they lead with Matters connected atl and conduct the corespond ne of the digart The tand rerequed to role that we lessen ited wit and join po the topografty teso ees connu cut on nimitay eagab lit es of the r respect e districts to range all detals of q artern g eq ment nd mo ement of troops and to maject and r port upon all m hts y b lli gs md canto meats

Co A II Marray D payAlj Gerra R. A. alida

There are none

C tonel T I n Ad cents General B pas Judgo

Rejoting o Maji heat one fo courts mail of alote er nature for the information of the gene al officers ider whom they se e

Eleve evenge and eport ago an all coults and the region of the conformation of the adject ago and coults and the region of the adject of the conformation of the adject of the the region of the the region of the boundary to the soft of the region of the control by to the soft of the region of the control by the soft of the region of the control by the soft of the region of the control by the soft of the region of the control by the soft of the region of the control by the soft of the region of the regi ad nee

Examinet on of monthly cturns of so is martal furn sled by Brtsh eg ments

Conducting the proceedings of all general courts may I and of important trais by I strict courts mart all requiring the adoft offices With legal tra n ng a so of especial co rts of enquiry
Reporting to the gene al offeres i cases i cro their advice s

The inspecting veta ary su geon online le at Mee tins the adm a strat e chi ge of his carele under the direction of the princip h

F F Clas Esq P scap Vet many Surve a Bengal Army Ma o A S House na D of Garr on Ins not on us India

vetermary surgeon The gurr son 1 structors of to cles have te-

(a) arrange for the forma on of classes at centues

(3) cond at the estruction and subsequently assist at the examina tion of the offcers attend g tler classes

M po H J Hallowes, Inspecto

An unpy d super atendent at Umba ly and Lucknow to a per <e the do by rout ne of the gar son gymnes um The dites of the three sub-inspecto in to travele children of his

M P W D to Sup atend on) h Army a nos.

of Grace sax a I day

school eports

Appendix IV]

Mayor F H. Matsh S pdt. Native Army Schools, Umballa

Colonel R. A. Moore Actuag Commissary General Madrus

Colo el S II E Clamer a charge Ord muso Department, Madras

Surgeon General C A Gordon MD CD Principal Ved cal Officer Br tish Lorces Modras

D H R Oswald Acts g Sur goon General I M S Madras

Dr W H W Corn sh PRCS San to 3 Commun over Madens Colonel J W R deo † Controller Mil tary Accounts Mad no

Preside cy Pay Office Madras Le t. Col A Searle Smilt.

Engad er General F W Jobb Adjutant-General Madens.

Major Jola Evig Offenting Quarter Master General Madras

Colonel G P B Sherarki Judge Advocate General Modras.

always at head quarters, and is accounted for elsewhere

L cuterant Colonel M W W Honglly Acting Commissory General Bombsy

Presidency Роопа Mhow

I commissary general

and their duties are shown in reply 4 (8), paper I Established complenent of commissioned officers of the Bon bay com vissarial

> 1 deputy commissuy general 2 assistant commissaries general, 1st class 2 ditto ditto 2nd class 3 deputy assistant commissaries general 1st class ditto ditto

> 2nd class 6 sub assistant commissatios general, 1st class ditto ditto 2nd class 3 3rd class ditto ditta

24 Administrative duties Commissary gone al

Deputs commissary general

I have no assistants I um allowed Rs 30 per month office allowance only

All other commissariat officers have executive charges, and provide for the wants of the troops in their division or circle

There are no assistants not at head-quarters There are of course, officers in charge of aisenals, fratories and depots

at Madras and out-stations One clerk assists the surgeon general at Octaermund He forms

part of the off constablishment sanctioned for the surgeon general's office at Fort Sunt George His duties at Ootseamund are solely those of a copying elerk

There are no assistants other than at head quarters

There are no assistants in my department but the inspector of vac cination iets as deputy sanitary commissioner in his tours, reporting results of inspection to me

Nil All assistants are at head quarters

Fide answer to question 3

I have no assistants, as explained in answer 3

No assistants away from head quarters, unless on tour with com-

mander in chief

The ass stants and deputy assistants not at head-quarters carry on all the duties of the department in their divisions and districts under the order of the general officers commanding. Their duties are of the same

nature as those of the quarter master-general at head quarters as defund in answer to question 1, except the disposition and relief of troops, which is arranged at army head-quarters

There are four deputies judge advocate at different stations, w., Bangalore, Madras, Secundariand and Rangoon. Their duties are to advise general officers communding divisions or districts within their encles on all matters connected with military law and courts martial, cases on all matters connected with multitry live and courts mantally, to supervise all matters counts mutually attend exception, for examine evidence, and revise or finame chulges for trail by courts-mutual inference to general to give instructions for preciouss, for to conduct trails by general courts mutual may report and finamed in the had-quarters offices with a monthly return of courts mutual mission to general held in them carele they also proport and illustrate of impulse of applications forwarded to train plead quarters for general counts matual. If the question refers only to unconcentral assistants, there is only one constant with it is not at the office of the proportion of the constant with it is not at the office of the country of the constant of the constan

The assistants deputy assistants and sub-assistants are all employed at the executive charges A tribular statement is attached shewing the distribution of the commissioned warrant and non commissioned ranks of the department. It will be of served that two stations-Ahmednagar and Deolah—usually in charge of commissioned officers are now entrusted to warrant officers and Colonel Mignor who has just inspected

the executive charge at Aden, reports that a sub assistant commissary At the presidency, Poots and Mirow, ne consequence of the extent of the executive officers are allowed as such such as the control of the executive officers are allowed as subsmit before the extent of the executive direct sense assistants to the executive officers are allowed as subsmit below.

3 officers. do, i do,

Detribition of the course of erestive officers of the Bonhay consenar at on the let A g at 1879

Statoons	As tate on and s g c 11st as	Accept on s	Dop ty n n t c n s so les go e l 1 ted s	Dp y as trut comns	en alstant come s	Sub a. nt. nt comm 8 sarres go or 1 23 d cla s	Ac mg officers	Remarks
Bond ty Penn; Mbow I'eli necount' K'i acheo Belgaum Adau Adau Deesa Deesa Ahmedab d Nu seraind Nosemul Hydra at Ducklee Almelabe Almelabe Almelabe Fresent O fullongi ** Present O nafeld d tes	1 2	l l vac	1	1 2	1 2 1 1 1	1 1 2	1 1 2	A-matant communication of the first state of the fi

NB-Officers a led at a ten haure not avail ble for executa e duty

Established complement of warrant officers of the Bombay commissanat

- I deputy comm s ary
- 1 assistant commissa y
- I deputy assistant commissary
- 9 conducto s
- 10 sab confuctors

Del lites of 1 a mil	of cc78	of ile.	Bo baj	00 R 38	e ial o	t ile 1st A g st 1879
S at cas	Deputy con mesery	As state compa	Beyon say	Conductors	Sub conductors	Remurks
Spee al duty* Bombay Aden Pasona Alon Mhow Deess Rem val ee Belg vale Belg v	1	ı	1	1 2 1 1 1 1	1 111	Somman *One attribod to mente apply
Precent		1	1	9	10	

t B.-Off can led al we called for d all ut command a symmethy goal Soft ra The

Established complement of non-commissioned officers of the Bombay commissariat

11 Sergeants,

Distribution of non-commissioned officers of the Bowbay Commissariat on the 1st August 1879.

<u> </u>	Stations			Sergerate	Remarks
Bombay Bandora Poona Aden Ahmedabad Belgrum Kurrachee	1 + (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	Present	, , ,, ,, ,,	5 1 1 1 1 1	

Mayor General W S Hatch, aspector General of Ordgenee and Magazines, Bombay

The only assistants not at head-quarters are the superintendents of factories and commissiones of ordnance, as follows -

superintendent, gun-carriage factory.

superintendent, gunpowder fretory superintendent, small-arm ammunition fretory

assistant superintendent of factories (new with gun carriage fac 2 1st class commissaries of ordnance—to be reduced to one

8 2nd class commissance of ordunec

1 3rd class commissary of orderace—to be increased to two

Deputy Surgoon General T M S. Pego Off casting Surgeon General British Perces, Bensley

The surgeon general is assisted in his superintendence of the department by three deputy surgeons-general, and the command as divided into three medical circles -(a) They have the control over the medical and sanitary an angu-

ments in their respective endes,

(6) they also have to prepare certain periodical returns, and
(c) to inspect and report upon hospitals, barracks and medical

officers

Dr W G Hanter Surgetn Gen oral I M D., Bouler Dr John Lumsdame, Sandary Commissioner, Bombay

There are no assistants attached to this office

They personally inspect the cillage register of births and deaths, and compile and tabulate the collectorate returns. Moving from place to place for some 8 months out of the 12, they personally test the work of then vaccinators by examining the children reported as vaccinated. The smallest hamlets and the largest towns are alike visited and inspected with reference to their water-supply, and general conservancy To show that these distance are not merely nounced, rounded from last year's annual apport whene it is recorded thit, arm for urn, they passorally assumed 46,318 oldnets, mode 368 enemapenest, and two outsides the standard should be supported to the standard should be supported to the standard should be supported to the support of the standard should be supported to the standard should be supported to the support of the su Interest of the Northern Indiana. The Northern and one for the Northern and one for the Southern Decem, one for the Konlan, one for Enstern Guzenai, and one for Sind For Western Guzenat there is a superintendent of vaccination, and for the city of Bombay there is another. The former is in quasi foreign territory, and the duties of each are more unmediately connected with vaccination

Mayor W Perrom Examiner, Pay Department Bombay

No assistants away from head-quarters

Captan H Cowper, Pres densy Paymaster Bunbay

No assistants are deputed from this office except the assistant presidency paymester, whose duties, when absent, consists of the payment of Native and other pensioners

Colonel J Thacker, Superintend cut, Army Clothing Bombay

The work of the department is carried on in Bomb's only

Brigadier Geseral H P Brooke Adjutant General, Bombay

The duties of assistants and of deputy assistants adjutant general not at head-quarters, are in all respects analogous to those devolving on the staff officers of the deputment at head-quarters

Bergud er General G Burro vs Quarter-Master-General Bumbay

One resistant is attrached to each division or district (except Belgram) of the army, and performs the following duties under the olders of the office commanding -

Movement of troops, quartering of troops, superintending embrilar too and disembarkation of troops, all matters regarding contonments, to be required with the nature of the country, military resources, towns, strongholds, rivers, rouds, transport, population scaports and

Colonel C O Ma de Judge Ad-versti, General Poena

rivers tonnege procurable There we but it o doputy judge advocates in this presidency, one in the Poort, and one in the Minov errole. These officers con buck there is the general officers in committed of dissions and districts, on the principle, and down for the judge advocate general with the commence of the principle, and down for the judge advocate general with the com-

mander in chief They conduct the proceedings of all general courts mutual utilum them respective entels. They supervise the proceedings of all minor courts martial, transmitting the proceedings of all district courts, after registry to this office

They sufervise and report upon the monthly teturns of punishments, confiscations and decisions in suits of debts passed and indicated by

say erintendents of bazars within their respective circles Fuey also report on and give their opinion on matters appertuning to caval and unlitary law when called upon to do so

5. What is the cost of extra allowances to the establishment of your office for being at Simla, and can you suggest any way of reducing this cost?

Colonel J I Wiles Commis asser General Respont

Usually only two clerks accompany the commissury general to Simla One third of his pay is allowed, one clerk drawing more than Rs 200, and buff of his pay to the other who draws less than Rs 200 They are also allowed dik come, one from Umbulla to Smila and second class face by rail from Calcutta to Umballa for themselves and third class face for a servent with 24 maunds baggage. These allowunces are far less liberal than those of Scoretaint clerks, and no reduction in the cost is practicable

Major General N Catopbell Offi e ating Inspeciar General of Ord nance and Magazines, Bengal

The cost of extra allowances to that portion of the ordinance off ea which is at present at Simla is about Rs 2 400. The best way to reduce my cost on this account is to put an end to the system under which the inspector general or any portion of the ordinance office is brought up to Simil narmally Under the present organization of the

department I am of opinion that unless the Government of India deem it absolutely measure tegrations. I was obtained that these has terogenizated or flow does it is obtained, whereast to the hill station it would be to the himself of the state of the

Surgeon Ge ord J H Ker Ispos, British Medical Dipartime t, a d Principal Medical Officer Br t sh I svees fa ludin

present state of the finance in India imperatively calls for An extra allowance at 10 per cent on salvry is drawn by the clorks and servants of the establishment entertained prior to 1874, when orders

were assed probabiling the great to fat ire meumbents as hade a consistency positioning ton great 20 into the indicators to Bis 147 2-8, per messare, darwin jor quick claim and then sace "mounts to Bis 147 2-8, per messare, darwin jor quick claim and too make return to great which a contract the gradual for a many contractions of the office bong at Samp, claim proceeding to the true contract to the office bong at Samp, claim proceeding no turn to contract our proceedings to the contraction of the office bong at Samp, claim proceeding no turn to contract our proceedings to the contract of the office bong at Samp, claim proceeding no turn to contract our proceedings to the contract of the office bong at Samp, claim proceeding no turn to contract our proceedings to the contract of the office bong at Samp, claim proceeding no turn to contract our proceedings to the contract of the office bong at Samp, claim proceeding no turn to contract our proceedings to the contract of the office bong at Samp, claim proceeding no turn to contract our proceedings and the contract of the office bong at Samp and Samp at

and the sauges agreed, are entitled to the fallowing efficience—there is a status of Rs 100 and kes, at 25 per cent., 18. 100 to 200, at 15 per cent, over Rs 200, at 10 per cent. They are the antitied to test terrupes and establishment for the sauge at the positive person, and when not supplied with earny engineers of the gratefunction for the sauge at the positive report, and when not supplied with earny engineers or public quarters, to here of accommodation or beneverate. Services to an additional thard of their pry

Surgron General J F Beatso Indam Med cal Ser see Bengul

No extra allowances are granted

De T. M. Cannelons tary Comm smoor will the Gos

Rs 1 245 This is the amount of Simla allowances and house rent granted to two assistants in the general branch. Formerly all the clerl's received Simb allowances, but in 1875, when the establishment was revise I only those two were recommended for them who accompany the sunfary commissioner to Calcutta or on tour If Smin were to le

the acknowledged herd quarters of the Government of India, as it vitarily is during even months of every year-of the main portion of the offices were left here and only camp establishments fallen down to Calcutta during the winter,—then confidence would be established, people would hadd house eather for how or to hive in them it emakes and routs would full. At present they are very tagh I spent not only of sents of houses occupied by officer and clerk, but also of bazars rent. So long as they remain as exorbitant as they now are, the price of everything must remain high. It is the feeling of uncertainty that mikes Simila so expensive. Give the arrangement permanence as far as possible, and the special Simila allowances to cleaks may be very largely reduced

Colonel P B Harrison Con facilier of Multi sy Accounts Bengal

None The officers are not directly attached to, nor required to move with, the Government of India

Majo O R Newmarch Accountant-General Military De 1 i tment

The cost in 1878 70 was as follows -Rs Maintenance allowances to clerks and inferior 7,752 House pent allog mees 0,700 Total 10,502

This is under consideration by a special committee

Colo rel J K Corpe D votos of Army Revioust Operations

My office establishment does not receive my extra allowance for

20 per cent on salaries of Rs 100 per month or less to per cent on salaries of Rs 100 to Rs 200 per month

10 per cent on salures of more than Rs 200 per month

Each inferior servant at the rate of 50 per cent of pay The expense on this recount for the past year amounted to Rs 520 I cannot suggest any way of reducing this cost

I consider the inferior servants are not sufficiently paid by their pay proper. I mean, without this allowance, it is impossible now to obtain the services of any respectable man at Simila on Rs. 5. a month. These rates were cottled 25 years ago

J H B Hallen Esq General Superintendent of Horse Breed in, Of critical Major General Sir P S Lums

The establishment of this office get no extra allowances for being at Simla

den non, car Adjuint-General in In his

The Smila allowane (10 per cent on scharce) was ubounded by Government in 1871, total Multi my Department communication following since which diet the ullowance base event in the case of all assignments. It is now drawn only by those who joined the offee below that other, and as of exclose gradually dump only medium of the communication of the

Resolution by the Government of India, Military Department, The reference of Lorent to dated Fort Willian , the let April 1871

Read-

Resolution by the Government of India, Financial Department,-No 1899, dated Fort William, the 21st Much 1871

Rend I manural Resolution No 5846, dated the 17th December 1861, sanctioning an additional allowance of 10 per cent on their salaries to the clerks of the unity head-quarters offices located at

Read also the following correspondence having reference to a proposal by Simia tour committee for the discontinuance of the above allowance -Endorsement from Financial Department, No 1249, dated the 20th February 1873, and enclo-

Extract from the Proceedings of the Government of India in the Military Department.

No 319, dated the 19th July 1873, and enclosures Office memorundum to the Multury Department No 2159, dated the 18th August 1873 Office memorandum from the Multiny Department No 502, dated the 10th Pelmury 1871

RESOLUTION -The Governor-General in Council is pleased to decide that the extra allowance of 10 per cent granted at present to the clocks of the namy head-quarters offices at Simla shall be discon tinued in the case of all future menimbents

Onena-Ordered, that this Resolution be communicated to the Military Department D BARBOUR, (Sd.) Under-Secy to the Good of India

No. 50

Copy of the above forwarded to the Adjutant General for the information of the Right Hon'ble the Commendes in Chief, in continuation of No 523, dated the 10th Pebrury 1871 By order,

(Sd) B E BACON, Col, Depy Secy to the Gart of India

No 51 -To the Controller of Military Accounts

Calcuel C C Johnson Officent-To clears and distrismen appointed before the 21st March 1874, ng Quarter Master General in Rs 4,060, and to duffues and peons entertained before the 0th January 1868, Rs 396 per unum

These changes are already in course of bong reduced as, under the rulangs contained in Diructual Department Resolution No 1890 of 21st Majoh 1871, and Militury Department lette No 589 of 5th January 1865, incumbents appointed to entertuned after the respective dates named do not because of your day of the property of the state of the property of th

Colonel A H Hurray Deputy Adjutant-General, Royal Artiflery in India

The only extra allowances granted to my office establishment, while sheet from Sunda is 10 per cent on enhance shows Rs 900 per mensem. 15 per cent on enhance before Rs 100 and not exceeding Rs 200, and 20 per cent on salarnes of Rs 106 and iess. The Nature servants are also allowed one half their salaries in addition when absent from Sunda.

I do not timb due affectuare could me outly be refused, more particularly as regards the decks, for it does not compensate them for the extre expresses establed upon them by Jeurns gain Indeed, in the case of a morned man, who, it has takes his wife, and family with time, must pay of their travelling expresses, and it he heaves them blund, must keep a segment establishment but at the Smith, the aflowance contributes an item towards compensating him for his additional expresses as small as to be exercity upprecasable.

as Shini, the innervale approaches
and a non-variant conjugate to the property of the property of the conjugate to the property of the conjugate to the property of the conjugate to the property of the conjugate to the property of the conjugate property of the conjugate property of the

soon would be constrored upon a severing east or terrements, servants

A free passage for their framines a sirrady granted by regulators when they proceed on duty of
a nermanent nature, i.e., extending over aix mouths but as this ris ely-or ever largeest vithough they
may frequently be away four and five mouths, I would recommend that it would be extended to then
under ell acreamations?

Colonel J Young Judg. Advocate-General, Bengal

The cleak of this office get 10 per cent on their salvies, what is a mounting or at Simila or elsewhere, unconting in the aggregate to Rs 1 608 anoually, with an addition of a and 10 per cent to those drawing less than Rs 200 and Rs 100 respectively when they leave their head quirters at Simila I cannot suggret my may of reducent the above

r F Collins Eng Prusc pul Vely Surgeon, Bengai Army None

Mayer A. S. Hunter Director of Garrison Instruction in India

I am not aware that any extra cost is entailed by my office being located at Simla

No extra allowances of any sort me given on account of my office being at Simla

Major H J Hallowes Inspector of Gyanassa in India. Major F W Dunn, Superintend ont, Eritish Army Schools

None

Major F H Marsh Supdi Natura Army Schools Umbella

There are no exter allowances beyond travelling allowance of the supermiendent, Nature army schools

This office does not go to Octacimum, but remains at Madris uli

Coi. R. A. Morre, Actg Coursy General Madras Coi. S. H. F. Chum or an ellarge Grinance Department Madras

the year round

No portion of this office proceeds to Octaermund

Surgeon General C A Gordon M B C B Princ pril Med cal Officer Buitada Lorces Madras The exth allowences nonwed by my office est-blickment at Oosecument amount to Rs 1880 per mensem, nr., butto for 1 clerk Rs 15, ditto Pi poon Rs 36 1 cut suggest no merus of reduring this cost. I consider that ne with some other departmental clerks employed at Oofer-mund, for, of this surgeon general s office, should be allowed bosse rent white resident there

Br H R Oswald MD Act ag Surgeon General Indian Meshcat Sorvice Midras Not applicable to this office which does not move to Octacamund, a residence there being incompatible with its oncious and often emergent duties

Dr W H W Cometh, Fues, Santary Commissioner for Madias

None. But the swittery commissions being a travelling officer, le proceeds on fours of inspection from time to time. On such costs sons a clerk that a pean accompany inn, and the eveness are used from the switchest random of Bis 2,000 distinct in the budget as travelling dilutance for humself and establishment.

Col J W Riderat, Controller of Military Accounts, Madras The offices remain permanently at the presidency therefore there are no extri allowances of the kind referred to.

The controller has been allowed this year to conduct his duties with a portion of his office excludishment at Octaemaund, but entarely at his

own expense
Presidency Pry Office Madris Trile answer to question 8

Leut Col A Searle Supdt and Agent Army Clothing Maires

None, for reasons explained in answer 8

Appendix IV]

Brigadier General F W Jobb, Adjutant-General, Madras

Until the present year, taking the annual tour" to last 6 months, the average extra cost to the establishment has amounted to about Rs 785 for the period re at the rate of 50 per cent butta to clerks, exclusive

of rulway fare and curt have This year, instead of the 50 per cent britin, the travelling clerks

Ano your, mesons of the out per cent rotts, the travelling cleds have been allowed the same privileges as the cled's of the Government offices, thus, when the cled's happen to be married men, may perhaps average double the amount

Major John Ewing Officiting Onarter Master General Madras

The cost of extra allowance to the establishment of this office has been Rs 293 for about six months. There is no way of reducing the cost on the contrary, it was found necessary this year to have an extra elerk up at Ootseamund

Col J P B Sterard Judge Advocate-General, Madras

Rs 258 a month or Rs 1518 for six months It may be reduced y providing the establishment with public quarters for dwelling instead of allowing house sent

Lieutepant-Colonel M W Wil loughby Acting Commissary General, Bombry

The office of the commissivy general is perminently located at Bombay, and is not removed during the year to Poons or elsewhere On occusions of the commissary general s going on tour he takes with him a single clerk, whose actual travelling expenses are paid, and there does not appear to be any room for reduction of cost of this arrange

Major General W S Hatch, Inspector General of Ordnaum and Magazines Bombay

No extra allowances granted on this account

Dy Surga Genl J M S Page Olig Surga Genl British Forces The extra allowance granted to the establishment in Poons is only for five months in the year, and amounts to Rs 182, being butta allowed to one clerk and one peon Reduction in this riem is not possible Bombay The surgeon general's office does not go to Poons, hence there are

ment

Dr W J Hunter Surgn Goul Indian Medical Se v ce Bombay Dr. John Lumsdame Samture

no extra illonances There are no extra allowances for being at Poona

Commissioner Bombay Major W Perrenu Frammer Pay Department Bombay

The establishment receive no extra allonances Salarios are fixed prespective of station at which the office is located

Cuptain H Cowper Presidency Paymaster Bombay

The extra charge for the office being in Bombay is that of presidency house rent to myself, Rs 75, and Rs 40 to the assistant paymaster per measem, the reduction of which I am not in a position to suggest

Col J Thicker Supdi Army Clothing Bon bay Brigad er General H F Brooke Adjutant General Bombay

There are no extra allowances entailed by my establishment being m Bombay The head quarters of the urmy being permanently located at Poors, there are no extra allowances paid to the establishment. It is only

when herd quarters move to Bombay or to the hills or on inspection toms that the following allowances are authorized Tents for the European and Native clerks, or (when not so provided)

house 10nt in hen thereof Batta to the clerks and writers in the form of a percentage on the following sala es, ess ,-

Rs 100 and under

20 per cent above Rs 100 to 200 15 " Rs 200 and upwards 10 " Butta to the extent of Re 0 1 6 per duem to the havildar, and

Re 0 1-0 per drem to each of the other peons The above allowances are drawn during the whole per od of absence from Poons These us the only allow mees admissible to the clerks and servants

Bugadier General G Berrows Quarte Master General Bombay

None

Colonel C O Ma de Judgo-Advocate-General Poons

There is no extra allowance to the establishment of this office for being at Poons

6 What is the amount paid for cent of offices required by your department at all places, and can the cost be reduced in any way ?

of this office, aid no reduction appears practicable

Colonel J I Wiles Commissary General Bengal

Office rent is sanctioned on the following scale -

Per month. Rs 1st class executives (Pesl awar, Rawal Pindi Lahore, Kasauli, Lucknow, Meerut Gwilior Barcelly, and Allahabad) 60 2nd class executives (Umballa Jullandur Cawapone, Agra, Rankhet, Dinapore Benares, and Jubbulpore) 50 3rd class executive (Danjeel ng) 40

The offices of the department at Calcuits er., of commas ary general, deputy commassary general, lower ends, executive commuseared office, Calcuita, and executive commuseared office, seen and slapping, are provided with recommodation in a building restort it Re food per most? In Sec each of tworent enance to reduced, but premisents continuous expression this account may be seried by the creation at statums which are not 1 ledy to be given up of permisent quarters which could be in one building in a control tops, for all staff offices as the station

Major General & Campbell Officiating Inspector-General of Oninance and Magne ness Bengal The amount paid for sent of offices is as follows -Per manual
Re

For the office of the gun earnage factory at Estebaarh . 480

Total . 5,980

If any portion of the ordinance office is not brought up to Simla, the amount of R< 5,980 set forth can be reduced by Rs 600 yes amount, or to Rs 5,980

Surgeon General J. H. Ker I mes Britis! Medical Department and Principal Medical Officer Bertish Perton in Indon The rest paid at present for the office at Samla is Rs. I,400, and 10 per cent thereon, mannerpal taxes —total Rs. 1,540
Two rooms are reserved at Calcutta in th. building occupied by

the supcompensative date, Indian medical deportment, for this tast of this department when the surpos general vecamenes the Government by the Indian medical department. Each to the presidency "They are however without, at other taxes, the accommendation in the office at Simila 2s already from the best redequate for its requirements, and an application was submitted in Tebrusy 1870 for an increased allowance for home rent, which we however, evidence on the ground that the questions of Government quarters for offices was mader

consideration

Surgeon General T. P. Bestson
Indian Medical Service Bengal

The Index medical department office is now located in a lived paranta house, No. 5, Lettle Russell Street, the cent of which is Bis. 300 raneoth. It is comparatively a smill becase, and the counts real livery much crowded when the charl our of week. Two of the best rooms and remarked are given to the office establishment of the Decayl local moderal department, but is selved the slove area is defry of by it.

With regard to reduction of cost is not supersymmetry that not service to the softencent could be made as regardes hard building. As smalle, house could be fall on, for every round and prompts or suddering. The toles cost could be read of quertes could be found in the fact, or if a sirve of any other probles ellee became stankble, but this, vilhough office suggested, has never yet been found preference.

Dr J M Cun ngl am Canalary Comme with the treat of India Rs 100 per measem, or Rs 1,200 for the year. It cunnot be reduced

Colonel T B Harmon Con troller of Multary Accounts Bongri Its 1,120 a month. The only wry to reduce the cost would be to erect a suitable building to centam the several offices. The above sum, added to the rent at shight deep comments humbage now occupied by the department are assessed, would more then cover the interest on the money expended to exceting a proper and suitable building to accommonite under one root all the offices.

Major O R Newmarch, Accomitant-General Maistary Department The amount prid as reat per annum is—

Rs 3,000 in Calcutti exclusive of rates and taxes

1,200 in Simla

Total ,, 4,200

No reduction is possible at present

Colored B Walton Superina The department and its different offices occupy Government buildings at Alipsee near Calcetta

Colonel J K Couper, D rect or of Army Remount Operations

Rs 600 per ansum is allowed for rent of my office at all places, and the two int is hardly sufficient for " outside) have for the air months at Simil only. The office at the Physic region is a Government building and the Deportment Public Weaks charge Bs 108 per annum as rent. The office at Saharunpar is also a Government building, but no rent is charged.

J H B Hallen E-q General Super tendent, House Breeding Operations

The amount of rent paid for offices of this department aggregates Rs 1 280 annually, as follows — Rs
General superintendent's office at Rs 240 each 480
Assistant superintendent's office at Rs 240 each 480

Rs 240 each .. 480 Total . , 1,280

and cunnot be reduced in any way

Appendix IV]

Major General Sir P S Lumsden Kob osl, Ağlutsut-General in India

Rent is paid only at Simla, Rs 3,500 plus local taxes (this year 16 per cent)

When at the presidency, office accommodation is found in Fort William

The obvious and indeed the only way to reduce charges on this head is the constitution by Government of buildings wherein all public offices may be concentrated

Colonel C. C. Johnson Offi custing Quarter Master General in India At Simla the main office has been recently purchased by Government, and the interest and repairs represent the rent. The present intelligence branch occupies a small house next-door for which Rs 1,320 tent is paid this will not be large enough for the new brunch.

An office should be built for the whole of the army departments at

Sımla

At the herd quarters of ten divisions and districts Rs 240 each annually

The above amounts bursly meet the requirements. The only mode of relucing expenditure on this head that can be suggested is the alletment, or construction at the lend-quiviers of each command of a suitable building to accommodate the military staff offices there located

Colonel A If Murray Deputy Adjutant-General Royal Artillery an India.

Rs 1 200 per annum is paid for the Simbr office. When at Calcutta, the office is in a Government building in Fort William, and when else where it is in tents I do not consider the cost can possibly be reduced. Every corner

in the house now used at Simla is occupied, some of the rooms are overerowded already, and I do not think a cheaper building is procurable anywhere The s triation, moreover, is convenient, being next to the adjutant general s office

Colonel J Young Judge Advocate General, Bengul

Office rent at Simla has been Rs 200, is now Rs 700, and might rise again Rent for divisional offices is included in the office allowance drawn by deputies

F T Coll us Req., Principal Veterinary Surgeon Bengal Army

In Simla the annual cent for two large rooms for offices amounts to Rs 600, at Meerut about Rs 300 and I do not see from the amount of room required in what way the expense can be curtailed

Major A S Hunter, Director of Garrison Instruction in India

The net rent paid for lecture halls at five centres of garrison instruction has been put average from Rs 350 to Rs 450 a month. This expend ture has been kept down to a minimum by letting spare to commodition in the houses rented to garrison institutions or to officers. attending the classes

At the remaining three centies, Government buildings have been allotted for purposes of garrison instruction

The cost can be reduced by using Government buildings when available

Office sent of Rs 30 per month is allowed to me, and it could not

Major H J Hallower Inspec-tor of Gymnasia in India

be reduced No rent is pud for any office except my own at Simla The only rent allowed is Rs 30 per mensem for the office of the

Major F W Donn Superior tendent British Army Schools Major F H Marsh Super n-tendent Native Army Schools, Umballa

superintendent It cannot, I consider, be reduced No office tent is allowed. An old guard room (of former lines, levelled since the mutany) was converted into the school and office,

Colonel R A Moore Asting Commissary General Madras

Umballa Públic offices are provided at all stations except at Rangoon, Thuyetmyo, unl Bellary
At Rangoon the office allowance is Rs 70, at Thayetmyo Rs 60 at

Belluy Rs 40 These rates are not in excess of what would have to be paid as rent

for suitable office accommodation

Col S H E Clamer in charge Ordnauce Department Madras

No buildings are zented for offices for this department

Surgeon General C A Gordon, MD CB Procept MedicalOfficer Buttsh Forces Madias

The surgeon general s office at Fort Saint George being a Government building, no cent is paid for it. At Ootacamund the surgeon general conducts his duties in his private house the iental of which is defrayed by himself The administrative officers of encles draw an office allow ance of Rs 75 per mensem out of which they provide their own cle Is and statemery and such offices as they may require. In most mstrness if not in all, then offices form part of their private residences

Dr H R Oswald MD Act no Surgoon Gene al Indian Medical Service Madras

No rent paid The offices are held in public buildings

No reduction can be made under this heading

D WHW Comesh pages Samiary Commissioner for Aindres

Rs 80 a month of Rs 960 unrually, at Madras only This is the minimum sanctioned ludget allotment, and cannot be reduced in any way. Was reduced from Rs 100 to Rs 80 monthly by present incumbent of office nine years ago

Colonel J W Radeout Con troller of Military Accounts Modras

ķ

Presidency Pay Office Madras

Insut Col. A Searle Supdit Madese

Br gadur General P W Jobb Adjutant-General, Madras

Major John Engag Official og Quarter Master General Madra

Kamptee

Bellary Rangoon

Secunderahad

Legitenant-Colonel W W Wille gliby Act og Commissary General Bombay

All offices are Government buildings in Fort St. George. There is therefore no rent paid

The offices occupied by the paymaster are the property of Govern-ment and are fice of rept of any description

The premises occupied by this department are Government property. and no cost for rent is incurred

At Madras the office is located in a public Government building When at Ootacam and a building has to be rented for the office of the adjutant general and assistant adjutant-gene all royal artitlers. It has not been found practicable to get a house at a less rout than Rs 90 per mensem for the combined offices. This cost cannot be reduced

At lead quarters ofter —Rs 210 for ax months or Rs 30 per month at Ostacamund —In lect Naut George the office is accommolated in a public building —No reduction can be made in the rent paid it Ostace mand us the rents of houses there are high —No public buildings are available at Ostacrimund

Monthly office allowance in divisional offices -Rs 1607 170 These sums provide for the cost of clerks office rent and 118 These st 110

Connangre Madros 115 Off 100 | above Office is provided in a public building other charges as Bangalore Colonel J P B Sterved Judge Advocate General Madres A 1 bl c hadd ag in the fort is occup ed while with army head quarters at Ootseamund The cost is Rs 40 a month or Rs 210 for

six months. This may be reduced by locating several or all the army head quarters offices in one building large enough for the whole The actual expenditure under the head office-rent for the year

1878 79 is given below -Bs A 640 0 Ahmedabad 870 0 0 Ahmedoagor 210 0 0 283 7 Belgrum Baroda 128 4 Decsa 240 0 Hyderabad 190 4 Kurrachee 360 0 Mhow 360 0 Nusseerabad 199 14 n Neemuch 169 0 1200 0 0 Poons Total 4 871 13

At Poons the effice is accommodated in a hired building. The execution of a Government building his been sanctioned, but deferred for want of funds. At Aden a special amount? has been granted for office rent. At the other stations the * Re 20 office is accommodated in the house of the executive officer, who drives

from Government one-third of the sum paid by him as house rent At Ahmednagur and Breedy for some months part owng to reduction of establishment, the offices

An American and a ways in a come monage per or in go reconsist of establishment, the offices have been learned in the commissional stores and nething is at present charged for all ce-rent.

I see no may of reducing the above charges unless Government choose to build commissional, offices which would be desurable at all statums. Even the interest on money expended on the build

ings would probably exceed the sum now prud At Bombry the offices of the comm sary general and the excentive officer at the presidency are accommodated in a Government building, the old tou barriels

Mayar-General W S Hatch Inspector Ge erol of Ordennes and Magazines Bombry All the offices of the department are located in Government buildmes Deputy Surgeon General J. M. S. Fogo Off casting Su good General B. i. sh. Forces Bombay

The rooms occupied by the surgeon-general's office in Rombry are in a public building for which no rent is prid

While in Poona for the five months the office is administered in the

surgeon general a residence, for which no rent is charged to the State The offices are satuated in the Town Hall (Government building) and no rent is paid for them

The central office that of the suntary commissioner, is in the sceretrivit, and there is no charge for ront Lach deput; san tary commissioner draws an office allouvance of Rs 20 per month and the

Dr W G Hunter Sergren General Indrun Ved cal Depart-ment Bowley Dr. John Lumsda ne Euniare Commusioner Bunks

(1268)

Leentenant-Colonel D B Young Officiating Controller of Military Accounts Bombay (Controller's office)

Major W Perreus Examiner Pay Department Bombay

Lacut Col D B Young Offg Contle of M by Acots Bombry (Pens on Paymaster s office) Lest. Col D B home Offg Conthr of Mby Acets, Bonkey (Accounts Brane)

Capta a H Cowper Presidency Paymaster Bombay

Colonel J Thacke Superintendent Army Clothing Bombay

Brigde Genl H F Brooke

Adjutant Gene al Bombay

All the offices of the military account department in this presi denoy being recommedated in Government buildings, no charge for rent is incurred

There is no expenditure for rent, as the office is located in a Govern. ment building

All three offices are accommodated in public buildings

The office is located in a Government building, no rent is paid

The office is located in a Government building for which no rent

is charged The clothing agency piemises in Bombay are Government property The buildings, with improvements to adapt them to the wants of the agency, cost Government Rs 56 355 exclusive of the cost of the land

st, Rs 16 808 Their occupation by this department is economical and suntable

At Poona Rs 165 per mensem At the hills Rs 233 for the season (2 months)*

House rent is very high in Poona, and no house which would accome modate the office could be obtained at a lower rent. The house at present occupied is most unsuitable, and provides very inferior ac commodation

Brigadier General G Burro Quarter Master General Bombay

At Poors a Government building is occupied, at Bombay tents are used at the hills (three months) the gunter master general recurse one third of the bouse rent paid by him for the season to accommodate his office (about Rs 250). No reduction is feasible

Colonel C O Mande Judge Advocate General Possas

At Poons the judge advocate generals office is in the same building as the finance office, and no sent is paid for it, when in Bombay a Government tent has always been used for the office at Mahableshwar the average sent for office is from Rs 250 to Rs 300 per annum, this latter charge could not well be reduced

What is the annual cost in your department of-

(a) Stationery, (d) Telegraph charges,

(b) Printing,

(c) Postage,

(e) Travelling expenses, (r) Miscellaneous charges,

and contangent

and can they be reduced?

iond I i Wile Commune;

(a) Bs 28,145 9 3 during 1878 79, as infuncted in letter No 2894, dated 17th September 1879, by the say contendent of stationary

(b) Bs 4 655 during 1878 79, as infuncted in letter No 629A dated 6th October 1879, by the Colonel J I Willes Commissary General Bengal

superintendent of Government printing

(c), (d) (e) and (f) Fide letter No 7493 dated 9th September 1879, and statement attached from the controller of military accounts anneved below No reduction can be suggested

Copy of a letter No 7493, dated 9th September 1879, from the Controller of Military Accounts, to the Community-General

In compliance with the request contained in your letter No 5403, dated 28th August 1879, I have the honor to forward a statement showing the expenditure mourced during the east three years in the supervising and executive commissariat offices on account of postage, trivelling expenses, and miscell meous and contingent expenses

2 Telegraph charges were not separately compiled

8 7 8		1					
Charges	Supervising Supervising establ shment		vising sliment	Free estable	entive shment	Remanes	
	18*6 *7	1877 78	1978-79	1877 78	1878 79		
Restage Travelling expenses Telegraph charges Micellaneous and contin gent charges	18 376 24 988 } 64 779	1,971 ə,624 5,259	2 700 5,825 18,410	12 226 25,380 59,598	13,639 25,178 70 613	Telegraph charges were not separately com piled	
	1						

	(1269)		[Appendix IV
Mayer General N Campbell Officialess Impector General of Ordinacco and Magazines, Rengal	The annual cost as of— (a) Statemery (b) Pranting (c) Prestage (d) Telegraph thrages (e) Tavelling expenses (f) Miscellances and contin No reduction can be suggested	g.nt charges	Rs 5 603 8,486 4,421 1,458 8,097 10,614
Songon General J H Her Innes British Med cal Department and Principal Medical Officer British Forces in India	The following are approximate heads — (a) Statemeny About (b) Printing	average expenses	under the abore Re 800
1 Office work prope 2 Books and forms		•	500 2,500
	5	Petal .	3,000
1 Office desputches 2 Supplies of books	(e) Postage forms, &e , to corps in the comman	ıd	600 1 400
		letal .	2,000

W

500

Ordinanty about (e) Travelle of exponent

The officers and such small establishment is may be taken for a camp office (has inthetio never exceeded 3 clerks and 3 poons), that el under pressage warrants formshed by the quarter master general a department

(d) Telegraph charges

(f) Mescellaneous and contemport charges About Bs 600 annually, including cost of numbers, were clothing and blankets for the servants, and fuel for office use

Can they be reduced? A slight reduction under printing charges will it is believed, he effected by the discontinuance of the quarterly sheets of enerlyes and their embedament in the corrections to the Bougal Medical Regulations about to be issued quinterly instead of half youly under the suiction of Government and also by the reduction and amalgamation of a few of the War Office and local forms recently carried out

Under existing encurostances, no reduction under the other heads appears practicable. Every endeavour is diready is add to keep the expenditure as low as possible.

Anotem of expenditure connected with the printing of books and forms for issue to corps does

An item of comparison connected with the printing of books and forms for issue in corps often depose in the charges show conserved a manely noding and throat disagrees in the packages forwarded in Smith by the superintendents of Government printing and stationary Cole its.

Press; information on the subject bias not system covered from the superintendent of Government painting, but the charges in speciation may be rengally estimated at about 18 x 1000 per name and fix in hand under not home all pool legs weights; ILL manufact were recovered from. November 1878 to Cocholer 1819, eachs we of my name expense that my be establed in the Smalt post office by the described of the three member of most that on a boundary of the control of the state of the st despatch of the large number of packets and parcels containing the annual supplies to cope, which takes piece during the written mouths when the postel department works with a reduced establishment This expenditure in ght with great advantage and convenience to all concerned be avoided if all supplies of forms and bools were despitched direct from the office of the superintendent of Government printing Culentia to the several hospitals in the command instead of being, as it present,

for warded in bulk, to this office for re desputch and distribution to corps

It is therefore propose I that, while the element work connected with the matter, such as the checking of indents and correspondence relating thereto, is conducted in this dispartment as heretofore the duty of making up the purcels and complying with the requisitions be trunsferred to the Got enument Control Prices Ordentia where an establishment and every concennence for such work, abondy casts

Surgeon General J F Peatson Indian Medical Service, Bu gal

The annual cost of all those stems has undergone a marked decrease since the separation of the Bengal civil duties from the medical ad

ministration of the army and on it sources elsenbere but as the separation only tool effect from the commencement of 1878, it is too early to form any precise knowledge of the sayings effected. Although in a general was it may be sud that the civil medical dit es are completely divorced from this office for Bengril proper and to a very large extent to the North Western Provinces—that the necessary managements to doing it in the Punjab are almost ready and that the complement of eval hospital subordinates for Burma, Assum, Hyderabad, Central Provinces Ruppitame and Central India are to band, and merely award formal orders for then transfer in a few instances yet the entire correspondence involving expense of clerks, telegraph charges postage, and stationery have desolved on this office during the last two years so that the expenses are by no means reduced in a corresponding degree. The actual official work has in fact solidly meressed in consequence. And it may faither be added that the many introde questions connected with sending so many hospital subordinates from Bengril for dut, in Madris during the funing his not yet ceased to be a scious tix, on the current element labor. It is now nearly caded but realizing arreats of their pay and travelling allowances and recovering advinces, have formed a very large percentage of this office work during the past two years

Subject to this explanation, the actual figures are-

Rs A P 187 7 0

(a) Stationery This is an approximate sum Prior to the trunsfer of the Bengal civil medical duties the time is an approximate was included in that of the Calcutta office and honor it is an possible to determine exactly the amount due for that portion only which was expended here

71 / 1988 VS		468	5	8
Stationery, 1877-78 1878 79		148	5	4
(b) Printing—		5,032	0	9
1876 77 1877 78		2,770		0
1878-79	 	2,388	15	9

furnished by the superintendent of Government printing at Calcutta

(e) Postrge-	Rs A P
1876 77	1,836 11 6
1877 78	987 5 0
1878 79	689 14 6

Acte-It is probable the reduction in this item is to a great extent due to reduced charges and facil ties of the Postal Department

	(d) Telegraph ch	21,9'65-	-			Ks	А	ľ	
	1876 77					485	0	0	
						435	0	ñ	
	1877-78			•		1.050		ň	
	1878 79							٠,	
201	201010	due 4		Abanase	amountally to this	office have	no.	to d	0

The moreose is directly due to war charges especially to this office having to defray cost of messages resulted (as well as despatched) from principal medical officers of the field forces. No gr at reduction should be anticopred in this branch. As a rule, the evel medical administration gives infrequent occasion for telegraphic messages, or, if sunt, they are privately pud

 $N_{2}l$ (e) Trivelling expenses (f) Miscellaneous and contingent charges— Rs A P 1,034 12 4 786 11 9 658 5 9 1876 77

1877-78 1878 79 The reduction herein is not altogether to be relied on . It depends to a great extent on recurrent

expenses such as mattaing furniture, and occasional press of messages

In reply to the last postion of the question, I think it is apprent from the figures that this office is not meanable to the necessity of reducing expend ture, that a great deal has already been done, and that every exertion is being made throughout to exercise judicious economy

Dr J M. Consegnant Son boy Commiss over with the Government The actuals of 1875 79 were (a) Not known under this head, as the indents were not priced. of India

(b) About Rs 3,500 Nearly the whole of this is for the annual

report
(5) Rs 272 9
(3) Rs 45 8
(6) Rs 2934 9 6 including travelling to Calcutt, and back
(6) Rs 2,934 9 6 including travelling to Calcutt, and back

(f) Rs 1 486-13 6 The most of this is due to books, apparatus and other uticles required by the special assistants in their investigations

I have always endeavoured to study economy in the management of the office. The allowance for travelling to and from Calcutta might be reduced as far as famil es of officers are concerned but the saving to be derived in this office from this change would be but small, as the statistical officer remuns permanently at Simla

Colonel T B Harrisce Controller of Military Accounts Hengal.

Statuonery -In continuation of my letter No 8298 of the 26th September 1879, I have the honor to state that the total charges mourred for stytonery supplied to the military account department during the year 1878 79 amount to Rs 4,862-2-6

Printing, Rs 3 450 Postage Rs 7,250 per annum Telegraph charges Rs 1 300

Travelling expenses, Rs 18 100 Miscellineous and contangent charges, Rs 17,460

The expenditure under this head is hardly susceptible of reduction, though it is necessarily a fluctuating charge

Major O R Newmarch Account-ant General Military Department

The cost is as follows ---(c) Supplied by the statement department (b) Rs 2 630, meludes budget Average of the years 1870, (c) 3 22 2 1 1870 and 1877 (d) 2 25 0 1878. To both effices and clerk control of the years 1870, (c) Rs 10,002 in 1878. To both effices and clerk control of the years in and from

(f) Rs 2 400 including conveyance of office records to and from

Simia and other minor expenses I see no room for any material reduction, as every care is taken to render these services as economical as possible

	(1271)	[A	ppendix 11
		Rs	
Colonel B Walton S peruatend at and Agent Army Clothing impal	(e) Strt overy (b) Printing (c) Postage (d) Telegraph (e) Traveling expenses (f) Discellmeous and contingent charges That cannot be reduced	780 800 2,000 50 <i>Nil</i> 2,800	annually " " " "

Colonel J K Couper D restor of Army Remount Operations

en Re

(b) Printing Rs 15 0 0 As given by the superintendent, Government printing (e) Postage Rs 29a-0 0

d) Telegraph charges Rs. 518 0 0 (e) Travelling expenses Rs 5,389 0 0 This includes Rs 3,081 for the vetermary surgeon who tru velled in charge of remounts from Calcutta to the North West densits The horses are now sent with over-

seers, so nearly the whole of this amount will be saved Rs I 220 0 0 With the exception of (f) Muscellaneous and conthe travelling expenses shown above they cannot be reduced tangent charges

J H B Hallen Fsq General Super nic die t of Horse Breeding

The average annual cost in this department on account of the changes detailed are as follows -(a) Stationery—Is supplied by the superintendent of stationery, C leath who will be able to give the valention of the stationery

supplied to this department

(b) Printing—Is executed by the Government presses at Calcutta and Allahabed, whence

the required information as to cost may be obtained

(c) Postago, Rs 394 (l) Telegraph changes, Rs 38 (d) Trivelling expenses, Rs 6 201

Miscellancous, &c., Rs 1,237 The above charges we subject to fluctuations, depending upon encumetwines. The amounts show me the waveges of the last livre yers a taking into consideration the probable outlay in future compared with those in former year. No reduction in separation under the above heads can be suggested

Major Got oral B P S I ms det to a car Adjulant General

(a) Statemery is obtained from the Government stores on annual undent, according to regulated scale and strength of establishment am unable to give the cost

an annow or give success

(6) Puring —This is done by the army herd quarters press

(a) Puring —This is done by the army herd quarters press

(b) 13,600 to 10,000 including agenuit of the annual cost of which at present is between

(c) Postago, Re 3,000, actuals from August 1878 to July 1879

(d) Postago, Re 3,000, actuals from August 1878 to July 1879

(e) Postago, Re 3,000, actuals from August 1878 to July 1879

(e) The August August 1879

(f) The August August 1879

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Telegraph charges, Rs 10 780, actuals from August 1878 to July 1879 Travelling expenses, Rs 5,000 budget 1879 80

(f) Miscellaneous and contangent charges Rs 3,800 (August 1878 to July 1879) Exclusive of house rent and press contingencies given under then own heads above

I cannot suggest my means of reduction Stationery is used only recording to office wants, and the press is on a minimum scale, heavily norked and indispensable for the printing work of trmy quarters

The other four heads cover fluctuating charges mearred only on the boud fide requirements of the SETVICE

Columni C C Jei menn Offic at ag Q urter Master General in It dis

In orderary years the cost is-(a) Stationery for army head quarters office Rs 1,125 for 11 divisional offices, Rs 1,710

(b) Printing Rs 4,279

(c) Postage for army head quarters affice, Rs 1,670 for divisional offices, Rs 2,786 (d) Telegraph charges for army head quarters office Rs 4,925

for divisional offices Rs 5,244 (c) Traveling expenses This department is unable to furnish the required information on

tle above subject, which is only available in the offices of the examin ers, pry and commisserrat accounts

(f) M seedlaneous and contingent charges for army head quarters office, Rs 1,888

for divisional offices, Rs 1,825

No reduction is feasible under the above heads

(1272)

Celemel A. H. M. 1717 Deputy Adjustint General Royal Artiflery in lind Bengal

Apt roximately I may say-

(a) Rs 360 (b) Printing is done in the adjutant general s press

(e) Rs 1110 (d) Rs 900, but during the list year, owing to the Cabul War this item has increased to about Rs 9 000

(c) Rs 1 000

(f) Rs (80 All these items are strictly scrutanized and I opt at the lowest possible minimum and cannot in my opinion be reduced

Colonel J Young Judge Advo eate General

(a) Stationery is supplied by the stationery office, and the cost not

Total

Total

215

4 255

(5) Printing is all done in the adjutant gene als printing office and no charge as made to this department Rs (e) Postage-At herd quarters Ðэ Divisional 480 Total 575 (d) Telegraphic charges-At he id quarters 90 Divis onal 125

(e) Travelling expenses - When moving from Simla the officers and clerks get wirrints for their conveyance from Kalka to their destination together with sums varying from Rs 25 to Rs 30 for their conveyance between Simla and Kalka. Div signal officers when travelling on court martial duty get warrants also but I have no means of

ascertaining particulars as to the cost

(f) Miscellaneous, &c — Rs At head-quarters 355 The office allowance of 4 divisional officers at Rs 70 per measem and 1 nt Rs 45 \$ 900

These charges cannot be reduced but the budget provision under heads (c) and (d) might be reduced from Rs 1 000 and Rs 400 to Rs 600 and Rs 300 respect vely

F F Coll as Esq Principal Vetermary Surgeon Be gal Army (a) Stationery Rs 120 paid by principal veterinary (6) Punting stargeon

Postage—Rs 200

Telegraph included a contagent Trivelling expenses for both circles—Rs 2 800

(f) Miscellaneous node contragent charges—Rs 200
The travelling expenses have me e sed a nee the pumerpal veterinary is rigion and inspecting vete my y su goon have Ind to attend the unnual casting committee and allotting committee and I lo not see in what way it is possible to reduce the above expenses

Major A S fluntur D rector of Ga son Instruction a Ludia

(a) I am unable to state even approximately, the cost of stat oncry se, drawing materials, for the eight centres of gruison instruction in India and the cis not time new to obtain the necessary data from the super itendent of Government stationery the amount supplied the amount supplied is however not in excess of hetaal requirements

(b) The printing of extination paper is an excess of restent requirements general softer the respondence of plans and dramings, by the surveyor general separations. The right stands for the above are in in the late number of on iss separated for each extination.

(c) About Rs 400 per ann un suffices for the off cal correspondence of the officers of the depart

(1) It is difficult to form an estimate of the expenditure under this head. But can all Rs 500 cours the entire cost of course of cers of the department only resort to telegrams when the matter referred does not admit of delay () From Rs 2000 to Rs 3000 The trivelling of the director of gainson instruction is limited to livit is actually sometime for the inspection and account of the instruction of the inspection and account of the instruction is hat is actually requisite for the inspection and examination of the classes under

mstr iction (f) About Rs 2000 This expend ture is confined to the amount necessary for the purchase of jetts stores by the granson instructor supply of new editions of the text-books, and purchase of bool s of reference for the soflice

Note of the foregoing charges are in my opinion capable of reduction

Major H J Hallowet, Easpeolor

of Gymnasıa in India

(a) For effice at Smale and the gymnesia at Umballa and Lucknow about Rs 360 annually

(6) Rs 30 (c) Ps 10

(d) Rs 10 (e) From Rs 3,500 to Rs 4,000

f) Almost vil The above charges cannot well be reduced, being actual requirements

Marec P W Dave Superintend ent Brit sl Army Schools

The cost of-(a) Stationery is not known to me, all the supplies being issued from the stationery office on indent

(6) Printing is also unknown to me, the charges (which are for forms only) being adjusted in the office of the superintendent, Govern ment printing

(e) Postage, about Rs 225 per annum in the office of the superintendent, about Rs 75 in the office of each sub inspector or say for the whole about Rs 450

(d) Telegrams from Rs 45 to 10 per minum (e) Trivelling This differs very much according to the district trivelled over in the case of the superntendent whose datase extend oner the entire presidency. In 1877 78 the charges for truck-ling and deputation of superintendent. Rs 1,902-12-0. In 1878 79 the charges were much less, and the united the supermitted to the office at Kusauh during neurly all the year.

The sub inspectors travel by want ut, and the actual cost cannot therefore be determined. Their

deputation viewance amounts to about Rs 2,400 for the three

(f) Muscellaneous and contingent charges. These are meansalerable, amounting to less than Ra 50 per annum

I do not consider that my of the above charges can be reduced The above are the charges incidental to the administration of the British army school depart-

t Those connected with the schools themselves, evclasive of the pry of the teches, are—
1 Supply of statutory The charges under this head are adjusted by the superintendent of stationery
2 Supply of books, ice, herelecture obtained from England, but in future to be supplied by local agents. The estimated uncount for the year 1578 70 was 2349 49 (or say roundly in Indian

currency Rs 4 000) Hindustana books Charges adjusted in the office of the secretary to the board of Native

languages

Forms Charges adjusted by the supe intendent of Government printing Grant for materials for sewing schools at the rate of Rs 1 12 per annum per child attend-Actual for 1878 79 Rs 3 a92 1 5 The charges under this head are gradually diminishing 6 Grant for prizes Rs 4 320 per annum

The only one of these charges which I think may be reduced without absolute detriment to the schools as the last. The allowance at present as-

Rupees 100 for each acgument

20 for each lattery

40 io: Luropean maskil battalion Chuarr 20 for head juncters suppers and miners

The amount drawn is in each case to be up ort and by the officer commanding to the idults and children the latter being especially considered. I do not think that prizes are now essential as an meentive to the non commissione I officers and privates to study, the advantages to be derived from menture to the non-confinement sources may grove to sump, or entranges we convers man he possess on electrificate being fully understood und forming a sufficient indercement. Assuming, then, that one fourth of it is subse consont drawn has been distributed as press to the ridule. I think that this proportion may be withhold. There would then reason its 3,015 of staribution amongst the children. There were on the roll diming the year 1578 on areange of nextly 5,000 children (1,705 common more necessary to the universe way year solo or an energy on neverty 5 6000 obtainent (1700 delles, 1833) and taps, 500 that the fewer bounds general variance let whom the 1 per runnum, and On, if each chall an the unstead schools neces allowed for at the rate of Be 1 5 year wanner, and each mainst 15 amount to make the warm would have been Be 313.0, which approximates the three fourths of the total change indirect to Be appears to me with the allowance for pures might be present in the rate of Be 1.5 by each of the detailing the markets schools, with 5 mans so for each child attening the infant school, on the average, monthly throughout the year, in each corps for which a fixed sum for prizes is now allowed

Mayor F R Moral Sopre alcold and Stationery and people have dray School, bunically the child's pay also

Stationery and printing are defrayed from the office allowance (with

Postage has been allowed at Rs 80 per annum in the budget Tolog uph charges are very rate, say Rs 3 or 1 per annum

Tending expenses Rs 1,000 is entered in the budget innually Miscellar cous and contingent charges. No allowance is granted under these bends

These charges could not be reduced without east foung efficiency

Colonel R A Moore Acting Couns sensy General Mukes

(a) The cost of stationery supplied to this department		
nonuelly as	Rs	4.000
(6) Of practing	.,	List
(c) Of 10 tage		2,196

All these items depend on the amount of busine's and correspondence

All titles from doing as a trend of the depth of the dept , only ne muned to proceed on an unual tour, commissaint officers are seldom

sent on n spection duty (f) Miscellaneous and contingent charges Rs 1,244 4 3 This meludes charges on account of binding books, almanes and nmy lists I huskhus tatties p ml ah pulling (Viragapatam alone) peons' belts, and petty niticles office rent and family allowance are excluded

Colonel S H E Chamser in charge Ordannee Department Mad

(a) Stationery Rs 2,878 1

(b) Printing Rs 768 annually (c) Postage, ordnance office Rs 390 assenals factor es and depôts Rs 737

(d) Telegraph charges (included in miscellaneous and contingent)
Ordnanes Agenalis Factorius and Depôts Office Rs Rs 304 8 170 (e) Trivell ng expenses

1 073 13 570 (f) Miscellaneous and contaggencies The expenses under the above heads have already been reduced to the lowest working limits. The trivelling expenses under assenals, fretories and de ôts are solely such as are incurred by chief civil mas ter armomers on their tours of inspection

Surgeon General C A Gordon M n o n Princ pal Med cal Officer British Forots Madras

This includes cost of all stationery for use (a) Stationery Bs 727 m surgeon general s office, also cost of birnh books as and to medical officers also cost of paper supplied for printing the various statistical acturns used by me lical officers

(b) Printing not I nown (c) Postage, Rs 455

(d) Telegrapi clarget Rs 288
(e) Travelling expenses The sungeon general soldom travels on duty and does not make annual inspections. If e expenses from 1st January 1879 to present date on this account have been Rs 212 12 0

(f) Miscellaneous and contingent charges, Rs 148 6 2 No reduction is practicable

Dr H R Cowald MD Acting Surgeon General Lidson Medical Service Madras The unnual cost of this department is of-

Stationery Rs Printing 2.054 Postage 365 ٠. Telegraph charges 285 Trivelling expenses Azi • Miscellaneous and contingent charges 272

The small cost of stationery is a iff eightly indicative of a minimum supply only being indented for by this office. Much of the cost of printing is on recount of the forms of returns of medical and suntary statistics, to print which is more economical than to use minuscript forms, when the numbers used are so large. I am unable to suggest any reduction in the cast of postage, which aggregates The telegraph is employed only when the ordinary 1 ost curnot subserve exactly one supre per diem the interests of the State

The surgeon general not being an inspecting officer, there is no charge incurred on account of trivelling expenses. Under the head of miscellaneous and contingent charges is included advertisements mysting tenders for the supply of diets &c , to the civil hospitals at the presidency, amounting The Borney Scholer or the reason of the competition and consequent intensed advantage to Government. The wriges of punish pullers included under it is head amount to Re 15% and a brest entrip for calleng documents has oos Re 15% of the competition and consequent the wriges of punish pullers included under it is head amount to Re 15% and a bress of the property of the competition of the comp expenditure under miscellaneous and contingent charges amounts to Rs 40 or a little more than Rs 3 per mensem

Dr W H W Cornel Figs Stustary Comm as oner for Madras

(a) Stat onery is supplied to my department annually from the stationery office on indent, the average cost of which for three years was Rs 275

(b) All the punting worl of my department is done in the Government pinting press, the actual costs of which I am unable to give, but I may stite that it is done with the lest expense pos-nible nothing I to what is not ally accessing to be putted hours cont to the posses, such as my unusual croput, monthly proceedings, blank horms of returns and santary reports for dist instant, docked signs and blant forms of covers

one from forms of covers

(c) Respect 500, melades pryment for pestage on us illicently stamped and unstamped covers
also of which a great number is received in my department from numericalities, &c
(d) Rices 2,000 for sanitary commissioner and establishment
(f) Riques 100
(i) (f), (o) (m) (f) for the minimum sanctioned budget allotments, and cannot be reduced in
an any The average annual expenditure for three years was (c) Rs 285, (d) Rs 20, (d) Rs 1800,
and (f) Rs 78. am way The and (f) Rs 87

Colonel J W Ridcont Control let, Military Accounts Madras

- (a) Stationery is obtained on annual general indent on the supermtendent of stationery there is no cash transaction, nor intimation given of the value of quantity indented for
- (b) Printing is done at the Government printing office. There is no debit agranst the department for the value of work executed

(c) Postage recording to past actuals averages Rs 180

(d) Telegraph charges average Rs 110
(e) Traciling expenses There are none, except of an exceptional nature, when an officer is transferred from one presidency to another

(f) Miscellaneous and contingent charges average Rs 90 No unnecessary expenditure is incurred

Pay Examiner, Madrat

(a) Stationery This is supplied by the superintendent of sta-tionery, and there are consequently no each transactions (6) Printing work done at the Fort Saint George Gazette Press No. cash transactions

(e) (d) Postage-Rs 2,835 Telegraph charges—Rs 228 8 0

Travelling expenses-Aone ') Miscellaneous and contagent churges-Rs 1,110

These charges cannot be reduced. They repre ent in the items of stationery, printing and postage, not only what is required by this office for its own use but also much that is required by the army generally in connection with forms, books, &c , supplied gratis according to regulation

Exameter of Comm sour at, Clothing and Stell Accounts Madras

As regards (a) and (b), information not available from this office rocords

Cost for tle post year. (c)—Rs 219 11 0 (d)—" 19 0 0 Nel (c)- " Nu (f)- ", 218 14 10 No reduction appears to me possible

Examiner of Ordinance Accounts

- (a) Stationery Rs 253 The supply is received from the Government stationary office (b) Printing Rs 209 11 0 The forms required by the office are
- printed at the Government Grzette Press, and a small portion from the press attached to the office of the inspector general of ordnance and magazmes

Postage, Re 98 11 6

Telegraph charges, Rs. 1 Travelling expenses, ast (c)

(j) 1878 79 Miscellaneous and contangent charges, Rs 68 3-4, actual of But Rs 200 are hudgetted for this purpose, and this sum is absolutely

Examiner of Medical Accounts Moderns.

- necessary to meet cost of negar of furnitue, renewal of cloth covers, &c Stationery, obtained from Government, cost unknown
 - Printing, performed at Government press, cost not known.
 Postage, Rs 60 per annum
 Telegraph charges Rs 3 per annum (6)

Miscellancous and contingent charges, Rs 164 per annum These charges cannot be reduced

Example of Medical Fund Accounts, Madras

- Sixtonery is obtained from the Government stationery office-(4) cost not known
 - Printing done at the Government press office-cost not known

Postage, Rs 14-12 per annum and (a) A i

Miscellaneous and contingent charges, Rs 25 13 per annum I do not think any reduction can be made in these charges

Frammer of Moders Military Funds Accounts Maders

- (a) Stationery is supplied from the stationery office, cost not Lnown Printing is executed if the Government press, cost not known.
 - B0835 Postage, Rs 70 per annum

Nil Nil

Miscellmeous and contingent expenses, Rs 99 per annum These charges cannot be reduced

Military Accounts Descriptored (Accounts Branch), Madras

Stationery, Rs 970. Ponting, ,, 681 Postage, , 300

Telegruph charges, Rs 285 Travelling expenses - None

Miscellaneous and contingent charges, Rs. 310

These are actuals of the past year No reductions appear fersable in the above tems

Telegraph of a ges usually average less. The Cabul Expedition has mereased them this year

Presidency Pay Office Madras

- (a) This is included in one general runs of indent for the whole of the m litray accounts department submitted by the controller
- (i) This is all executed at the Government printing press (a) The expenditure for postage averages Rs 50 per measum
- Fifty rupces will cover the annial expend ture under this head No travell ng expenses are neared on account of this office
- (e) M scellmeous and contingent charges Ils 10 per mensem (with an additional angual outlay of rupces eigl ty fo binding the records of this office) would suffice to cover these. It does not appear possible to be able to reduce the sums mentioned above.

appear possible to be done to let	duce and build me.			
L entenant-Colonel A. Scarle	The renual cos	st is as follows and e		
S perintendent and Agent, Army			Rs A I	9
Clothing Madres	(a)		416 13	5
	(8)		. 190 0	0
	(ð) (e)		G4S 0	0
	(d)		40 0	0
	(e)		None	
	f M		989 0	n

Brigadier General F W Jebb Adjutant-General Madras

States ery -Unknown stationery indented for on the stationery office without payme t

(b) P: in g -Unl nown most of the pr ning done at the Govern ment Gazette Press the rest at the Lawrence Asylum Press Bills adjusted by the pay exam no

Postage - For the last official year the postal account amounted to Rs 1 360

Telegrapi — For the last official year the telegraph changes amounted to Rs 1 374-9
Travell 19 caps uses — No travelling expenses other than those meutred for the annual tour of

The above are not capable of being reduced

inspection Miscellaneous and contage t clarges for the last off and yen amounted to Rs 215 8 9 over (f)(c) and (d) are dependent on the req ements of the service. No reduction can be foreseen

A possible reduction of Rs 50 might be looked for but this depends on the number of bearing covers received and unexpected charges Bearing covers were received from Malta and Cypros

Major John Frang Cificant ng	The cost annually of—			
Quarter Master General Madras	•	Rs	A	Ρ
	(a) Stationery	500	0	0
	(b) Punt og	1 176	0	9
	t Postage	J83	0	9
	(d) Telegraph charges	2 192	5	0
	(c) Thavelling expenses	786	8	5
	(f) Miscellaneous and contangent charges	ა85		5
	No red retion eva possibly be effected in the abo	ve char	ges	
	For divisional offices see real or to anaction 6		-	

Colonel I P B Sherard Judgo Advocate General Mad s		R_{θ}
merocace denteral gang y	(a) Stationery	125
	(b) Printing	2.00
	(c) Postage	120
	(d) Telegraph charges	20
	(e) Tra elling expenses	1 000
	 M scell meous and contingent charges 	150

(a) Statumers —At twenty

I cutenant Colonel M W Willoug by A ting Commissary General Bombay

Tl ey cannot be reduced to any apprec al le extent The cost in 15"S 79 is given below -Rs A P

tions and agene es 4803 5 8 Presidency Commissar at Office to Multa Lapedi tion Afghan operations 1.296 14 4 For hospitule at 18 executive stat ous and agencies 2375 6 2

execut ve sia

Total 8 475 9 (b) Pr ntang

12 910 0 0 (c) Postage 4 078 0 0 (d) Telegrams 6780 D 0 (e) Tavell ng 1845 0 0

(f) Miscellaneous and contingent charges including stat onery 6095 0 9

And I do not see how the charges on account of above heads can be reduced. A personal allowance of rupees masty per meason is allowed to the comm sarry general to pry for the stationery, book building and potty office and it is doubtful whether any appreciable saving book binding and petty would result by withdin an charge for book I inding and other contingences and supply ng him with stat onery, allowing him to

Mays General W 8 Helds In species General W 8 Helds In Species General G Orleance and department in the press loney — Hogame Bombay The following is the average of the past three years for the whole

			Rs	А	P
(a)			2 624	4	4
(6) (e)			5 110	10	8
(a)			2 268	9	4
(d)			197	8	0
(4)			4 249	0	0
. (<i>†</i>)			2 495	4	Ð

I do not see any probabil ty of reducing these

(a) Stationer; - The average unual cost for the pust five years is Deputy Eurgeon General J M S 1970 Official ng Surgeon General Polish Forcus Bembay Rs 155 6 2 British Forces (b) Prints g - The average annual cost for the last three years is Rs 2 º57

(c) Postage - Annu'i cost Rs 200 Telegraph of arges -Annual cost Rs 100

(d) Travell ng exps see -Travelling expenses of the surgeon generals tour of inspection Rs 500 f) Mincellaneous and conts gent charges

Rs80 Binding records 117 L Rs 807 Punkha cool e 50 Repa is to office furniture 60 Petty expenses

Surgeon General W G Hunter dant Method Descriptors Indian

Stat enery us a pphed by Government through the superintendent Department, of stationery on indent. The cost is not known to this office

Prating for exval branch of the office is executed at the Govern ment central press with previous sanct on of Government for the military branch at Education Society's Press

Postago costs Rs 500 per sunum (calculated on three years)

Telegraph of a ges Rs 66 per annum (calculated on three years) Travelling expenses are not meurred by this effice

Miscellaneous and contingent charges cost Rs 1.5 (calculated on tines years)

The e charges are at the lowest possible minimum. The strictest economy is exercised with regard to them and no reduction is possible

Dr John Lum de ne Saminry Commun oner Bombay (a) The mean of three years for the san tary commiss oner's off to is Rs 207 and a two years mean for the district offices collectively is Rs 270 Fo the entire department it may be taken as about

Rs 1 300 a year (b) The mean for five years is Rs 2 748 (c) Tie mean for three yeus is Rs 2 189

(c) It current not more years and a look (d) These melaided in pestage
(e) The sametry commissions has a budget travelling allocance for it e year of Rs 3 600 but the unevpended behaves hases. Acta I expresses incurred are only charged for Each deputy saminy. the unerprotoco commes upon the personal travel log allocance of Rs. 1800 a year when moving by rail. The fare is charged but the personal allocance for the day is deducted. The saleed mates draw marking batts and actual railway faces when moving by rail. The eather cost is about Rs. 18,000 per annum batta and actual railway fates when moving by 1 ml

(f) The mean for three years is Rs 2 019

I cannot see how the chappes could be reduced a

		Rs
L catemant-Colonel D B Young	Stat onery	485
Offic a ung Control er of MI tary	Print ng	6 170
Access to Bumbay (Controller's Office)	Pestage	250
,	Telegraph changes	800
	Travelling expenses	156
	Miscellaneous and contingent charges	270
The amount of printing :	melades work done for the appounts branch of the	office, on which

devolves the supply of all printed forms of pay lists and general states for the army and of pay abstracts belie acoustiance rolls transfer recespts, cheques he are used in the mulitary pay department as well as the forms required for its own use

No reduction is prietical le the expenditure under all the above heads being already carefully controlled with a view to economy

Major W Perress Frammer Pay Department, Bonalog The annual cost of-

	Rs
(a) Stateonery is	400
(6) Proting	697
(c) Po tage	673
(f) Telegraph charges	71
(e) Trivelling expenses	Arl
(/) Miccellaneous and contingent charges and are not susceptible of reduction.	1 462
must use more suscellations of tenthicitour	

L entenant-Colonel D B Young Offic ating Controller of Military Accounts Bombay (Pens on Pay master's Office)

	r wanty	0.000	3100323
	R_8	Rs	Rs
Stationery	138	100	72
rinting	50		59
ostage .	81	111	47
elegraph charges	10	10	
ravelling expenses	900	1,460	1,707
Assellaneous and contingent			
charges	319	75	112

No reduction in these items of expenditure appears practicable They are all subjected to a rigid examination in the audit office

Major M A Rowlandson Dra m ner of Comm starnat Cloth ag and Barrack Accounts Bembay

- (a) The average annual cost of stationery supplied by the stationery department is Rs 257
 - (b) The annual cost of printing is Rs 834

Ī

(i) The runnal cost of tolograph charges is Re 40
(i) The runnal cost of tolograph charges is Re 40
(i) There we no trivelling expanses secured by this office
(ii) The runal cost of musculaneous and cost negatichanges is Re 505
(iii) The virule cost of musculaneous and cost negatichanges is Re 505
(iii) The virule cost of musculaneous and cost negatichanges is Re 505
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(iii) The virule charges in Re 505
(iiii) The virule charges in Re 505
(iii) The virule charges in Re 505
(iii) The virule cha exclusive of the value of broadcloth, which is obtained from the superintendent, army clothing, nor

for office furniture which is pinchased when neturally necessary to replace a tacks worn out. The charges under the above heads are the lowest it is possible to mear, and cannot, I believe, be reduced

L'entenant W.R. L. Anderson in charge Ordnance Examiner's Office Rombay

Th	e annual cos	tın mv (department 18	as below	shown, ion	
			-		,	Rs
(a)	Stationery					481
165	Printing					585
6	Stationery Printing Postage Telegraph of Travelling	•				400
lá	Telegranh	harces				7
(a)	Travelling	Spananze				Nil
γ,	35. 11	1.				445

(f) Miscellaneous and contingent charges 445
All these charges are carefully kept down to a minimum, and no reduction is feasible

Surgeon Major P S Turnbell M.D., Examiner of Med cel Accounts Bombay

		Rs
Stationery		52
P inting		97
Postage		175
Contingent charges		160

No the amounts given here are based on the average of the past three years' expenditure meurred notwithstanding the exercise of the utmost possible economy

Loutenant-Colonel D B Young Officiating Controller of Military Accounts Bombay (Accounts

Stationery (obtained from the superintendent of sta-	
tioner)	252
Pi nting	22 8
Postage	1,200
Telegruph charges	120
Travelling expenses	Aul
Miscellaneous and contingent charges	1,200

Rs

No reduction can be made

The miscell'ancous contingent charges which appear high, include cost of new and repairs to old office fruntine, also charges for binding seconds

Capia n II Cowper Pres dency Paymoster Hombay

		Jus
(a)	Stationery .	\$20
(b)	Printing (about)	460
(c)	Postage	2,250
(d)	Telegraph charges	125
(e)	Pravelling expenses	Nil
(f)	Viscellineous and contingent charges	950

(f) Viscellineous and contingent charges These several items cannot be reduced

Colonel J Thanker Super atoud ont Army Clothing Bombay

- (a) Stationery, Rs 255 11 0
- (b) Printing, Rs 779
- (c) Postage, Rs 315 2 6 (d) Telegraph charges Rs 54
- (c) Travelling expenses, nel

(f) Office contingencies, Rs 108 G 6, miscellaneous, mil

The above charges are the actuals for 1878 79 They do not seem suscept ble of reduction printing charges may appear heavy but numerous forms in daily use in the factory as also ledgen and returns, are printed off, and more than their equivalent is saved by the curtailment of elencol Br gular General H F Brooke Adjutant General Fombay Cost of stationery—Rs 513 9 3 Cost of printing—Rs 15 50 40 0 Cost of postage—Rs 1,797 12-0 Cost of telegraph charges—Rs 9,044 14 0 Trivelling expenses—Rs 1,374 3 0

Missellaneous and contingent charges—Rs 538 to 11 The charges given above were those actually incurred in 1878 79

The charges green above were those actually meaned in 1818 79.
It is econsidered third in yn reduction be practicable, it will be due rithen to the retnal require ments of the public service from time to time, than to the effect of departmental control however vigilately excussed. These requirements we too vurnishe to admit of uniform economy, but is a general rich in outliery as permitted unless absolutely avantated by the crumstances.

Brigad er General G Burrows Quarter-Master General Bouhay

(a) Stationer; —Received from Government, annual cost about
Rs 1 400
Drawner; ofernal —Received from Government, annual cost about

Drawing: atmat—Received from Government, annual cost about
Rs 1,100. This includes the supply to all divisional offices in the
Bombay command
(b) Pristing—Done at the Education Society's Press under contract with Government, annual

chafting replies on the reverse of invarial letters, and by circlesing oil documents sent to one office on the same day in one cover. This also keeps down the postal charges. Under printing charges is included all rulway warrant forms required throughout the presidency emistration and other returns in connection with the toroping serrors, budget forms, all forms for the

burrack department, and sanitary reports

Colonel C C Mande, Judge The and
Adjoint-General Possa

The musual cost of—

Rs
(e) Stateonery 70
(f) Finature None
(e) Pestage 04
(d) Talegraph charges 43
(f) Thuyling expenses 600 to 780

Miscellaneous expenses and contingent charges

246

Office establishment of supervising and executive offices Deful the number, description and pay of the servants uttached to you office As follows — C lonel J. I Wiles Commercy Go and Bergal

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Magor-General N Campbell Offication inspects General of Ord names and Maganuss B agai.

The number, description and pay of the servants attached to the ordinance office are as follows —

No Description State of Total Remarks	nance and Magnames B ngal.	ordnar	ez off ce are as follows			
Section General J H Serv ham Servens Section Sec		No	Description		Total	Remarks
Surpess General J H for lame Prompt Modess Office Modess Section S		1 2 3 1 1 1	dutines { 1 jumaize of pous pous pous furnais durvan sreoper Total monthly cost	10 8 10 7 6 6	10 8 10 14 18 6 6 5	For six months only
Sugmon Grownt J. F. Baston Lishua Referral Server, Roughl Sud . vi	British Medical Department, and Principal Medical Officer Ballish	1	onee coone formsh chowledar bhistee	2	4 0 8 0 7 0 8 0 5 0 5 0 5 0	0 per mensem 0 ; 0 ; 0 ; 0 ; 0 ;
The J. M. Cramagham. Son tory Comments out to the do, we mented of India 1 for dathetical bounds at 1	Eurgeon Groomi J. F. Besteen Robum Medical Serv co, Bengul	Ist 2m be: 2	duftry at d , at ad peon at peons at Rs 6 durran at	8	. 15	s per mensem
Colone of B Here one Controller 1 Percent suppliers, at Be 10 each 16 per menurous 1 Percent suppliers, at Be 10 each 90 1 10 10 10 10 10 10	Passauge once a th the flo venment	1 4 I	infley at , for statistical branch secons (st., 2 for head office, 1 tical branch and 1 for special office) tt	et for stal lessistar	E 13 10 ths its	per mensem
	Coloni T B Here son Controller of M3 tory Accounts Bengal	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	econd suppliers, at Rs 10 each do eon eon eon eon eon eon eon eon eon eo		16 14 20 10 8 10 14 18 7 6 6 6	per incusern

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	Acces nis Branch	
	Rs	
	2 record suppliers, at Rs 10 each 20 per m 1 record supplier 9	
	l look bunder 10 ,	,
	1 dufty 9 :	
	2 poons, at Rs 7 each 14 ,	
	3 do at , 6 , 18 , 18 , 6	
	2 farrishes, at Rs 4 cuch 8	
	1 sweeper 5	,
	Total 195	
Major O R Actomateli Account	They are as follows -	
ant General Military Department	1 duftey 10 per n	tenscin
	1 ,, 9 ,	29
		12
	4 temporary peons engaged while at Simla	•
	and Calentta respectively at Rs 6 24 : 1 furnsh (Calentta) 6 :	,
	1 sweeper 6	"
	,,	22
	Total 106	
	Temperay for Smla-	
	1 chouled r for 5 menths during the winter when the office is at Calcutta C par r	nenr/m
		3)
Colonel B Walton Superintend	This question is answered by No 10 The whole esta	blishment is
ent and Agent Army Clething Be gal	shown in that statement	
Colonel J. E. Co. nor. D. roeter of	Re 1 duffry or bool binder . 12 per n	nonth
Colonel J K Co per D rector of Army Ren can't Operat cos	S eh ppresses each 5	2)
		1) Ja
		n
J H B Hallen Fsq Géneral	1 head eleak 250 per n	nensem
S per nic dent Home Breeding Operations		n n
	1 fourth elerk 50	,,
		27 27
	8 peons at Rs 5 each 15	is ct
	7	21
	-	
	Total 511	
	(1 on Rs 12	
Mayor General Ser P S L me len	9 dufines 1, , 10	
Ken esi. Adjutant General in India	2 23 25 C CCII	
	(1," ," 6	
	(1,,,10	
	(1,, ,, 7	
	l jemular peen , , 10	
	23 peons {22 ,, , G ,,	
	l chowledge 7 7 2 linstes 7 6 croh	
	2 sweepers ,, 6 ,,	
	43	

80 per mensem 10

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al Rs 10 per mencem

15 ., ŧ 22

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8 per mensem

12 per mensem

Coknel C C Johnson Off ating Quarter Mister-General in

1 preseman, at 1 duftry 2 dulines, at each 2 de 16 peops, 4 press cooles, at each

l chowledge, at i blustie. af 2 sweepers, at Total cost per annum, Rs 2,508

at ,,

2.5

2 duftnes, at 4 перак. at

(with usual elothing) l bhosto, at á 1 su ceper, at 4 I would here remark that I am not allowed a chowkidar

ditto

Colonel J Young Tudge Advocate General Bengal

Colonel A. H. Murray Deputy Adjutant General Royal Artibery in Lohn.

1 duftry Rs 8, and travelling allowance under old rules, Rs 4 ditta 3 peons at Rs 6 1 frash 1 eliowkida I sweeper

Government

a Government peop

1 тосью

1 totae

A lend clerk on Rs 60 using to Rs 90 per mensem paid by

An assistant, when required from press of work, Rs. to per monsom, paid by the papernal vetermary surgeon one chapmasses Rs 8 per measem paid by the principal veterinary surgeon

Mayor A S Hunter Durector of Garr son It struct on in India

F F Collins Esq Principal Ve

termary Surgeo: Besgul Army

Magor H J Hallowes Inspector of Gymnesia in India

Acting

Major I' W Duan Superis tendent Br tish Army Schools

Mayor F H Myrah Superior tendent Native Army Schools Umballa Colonel R. A. Moore Ac Comm ssary General Madres

Colonel S H E Cham er 19 el arga Ordanes Department, Mada es

Surgeon General C A Corden MB CB., Pru upul Medicul Officer British Forces Madras.

There are none receiving Government pay

One clerk on a monthly pay of Rs 50, one chaptassic at Rs 7, one sweeper at Rs 6 I have recently made application for a peon as at present I am compelled to maintain at my own cost a servent to do the work of

No servants are allowed for this office

There are one head peon and six peons at ached to the commissarygeneral softies. Their duty is to go with messages, and carry drafts and letters from the clerks to the officers and from the officers to the elecks, also to deliver letters. For elemning the office and also the office of the executase commissarial officer and storeleeper general, which are all in the same luiding, one sweeper and two tokes me employed

رر ا	27	0	25
1 peen	35	9	,,
5 menne	22	9 7 6 5 5	,,
2 ,, 2 ,, 1 totae		6	22
2	12	5	13
1 fefae		5	
1 00000	22		23
1 manager	at Rs	120 p	er mensem
1 head eleck	27	70 1	ъ
l elerl		50	
1 do	,	4a	13
	23		27
1 do	,	30	21
1 do 2 do	72	25	21
2 60	27	20	21
4 de	,	15	,
I mochie binder	27	16	21
4 peons		7	
I naterman	21	31	37
T is coordinate	25	u.	21

Total Rs 4SG S

Of the above 1 cleil and 1 peon are employed with the surgeon general at Outremmend during his stay there. The pay of the office establishment above enumerated admits of no reduction. The past of clerks on Re 15 per measurem is so small that immediately they acquire the continu of office work and become useful they are unxious to be off elsewhere to better themselves. If forced to remain they are discontented if allowed to depart, the office suffers. No reduction can be made in numbers which are already too small. Many of the clerks perform word at home after office hours, and not a few of them break down from over

	home after office hours, and not a few of then work	a break down from over
Dr. H. R. Oswald u.D. Act ing Sargeon General Indian Medical Serv on Madras	5 peons at Rs 7 1 sweeper and water woman 1 totae	Rs A 35 0 3 8 5 0
Dr. W.H. W. Coen ch. Stanfary Constructions for Madres	1 manager 1 clerk 1 to 1 do 1 do 1 do 1 do 1 do 1 do 1 do 2 do 1 moubae 5 peous vi Re 7 1 sweeper	ne 120 50 50 85 30 30 25 25 10 21
Colonel J W Rideout, Con- troller of Military Accounts Madras	Tour peons at Rs 7 per mensem cach- and menual servants are attached to what is a ment under the pay examiner, and are used troller and pay examiner	alled the general depart-
Pay Exemmer, Madras	••	Pay per mensem Rs A
	1 head mochue 5 mochus at Rs 11 cach 1 head peon 8 peons at Rs 7 cach 1 sweeper 1 mether	15 9 55 0 8 0 56 0 3 8 5 0
	Total per mensem	142 8
	Total per annum	1,710 0
	These have been reduced to a minimum, could be effected without detriment to the pub	, and no further reduction blic service
Examiner of Comm sar at Clothing and Sted Accounts Madras	3 moches [2 at Rs 12] (1 at Rs 1; 2 peous at Rs 5 12 3 do at Rs 7 1 tota at Rs 3 2 success at Rs 2 8 punl at p illers at Rs 4 * 2 tatte v ater men at Rs 3 8 *	0)
Examiner of Ordeance Accounts Madrie	1 head modue 1 has stant modue 1 hard poon 5 poons at Rs 7 each 1 water woman	Rs 10 8 9 35 4
Exampaer of Medical Accounts Madras	1 sweeper ,	7 0 ,, 1 8 , 1 8 ,
Examiner of Medical Funds Account Madras	One peon on Rs 8 per mensem	z v "
Usan ner M dras Multary Fands Accounts Multas	1 moche and bool bunder 2 peous (cach) 2 peous (cach) 1 sweeper and totte	Rs 11 8 7

M'hitary Account Department (Accounts Branch) Madrus	E ght servants as fallo vs — Two moel les nt Three peons nt One peon at One sweeper at One tothe nt	Rs 10 7 6 31 5
Presidency Pay Office, Madras	These number in all eleven with an aggre	gate pry of Rs 76-4 Rs A
	1 record Leeper 4 power at Re. 7 per memsem crah 9 n gill powe at cisto 1 sweeger 1 tote 2 maches at Re 7 coch	15 0 28 0 14 0 8 8 1 12 14 0
Louienant-Colonel A Searle S persotendent Army Clethrog Mad as	The servants attached to the office are as f	lollo vs Monthly pay Rs A
	1 duffadar (peon) 4 peons th Rs 7 1 mochae 1 do 2 waierman 1 foise	10 8 28 0 10 8 7 0 8 8 8 8
B gader General F W Jobb Adjutuat-General Madras	There are two mechaes, one on Rs 16 menson: Two attendents or peons on Rs 1 One waterman or sweeper Rs 4 Three officers' punkah pullers ihroughou	Weach One total Rs 5
	off cers are on tour Four office punksh pai	lers for four months in the
Vajor Ioha Ru ng O'Ro al ng Quarter Muster-General Madrus	There are one totte and one sweeper whose There are besides one tindal and ten hisears of ment employed in this office as nessengers in total pay per annum is Rs 844 which is camp equipage depôt.	the place of peons Their
Colonel G P B She and Judge Advo ate General Madras	1 mockie 1 peou 1 sweeper	Rs A P 10 0 0 7 0 0 5 8 0
L enterent-Colonel M W W Houghby Arting Commissiony Comercal Economy	The information required as above is given paper I under the head Comm stary General	n in reply to question 1 (b) s Office
Major General W S Hatel Importer General of Ordinance and Magazines, Bombay	In the ordennee office— 1 havides at Rs S, 4 peops at Rs T each all compleyed as messenge's Up to the date three isseers from the Popes are sat was they have been send ! ed to d try m tl e vison In Boulary aremait there are T we peops	al
1	pensed with There are none elsewhere in arsenals Gun curriage factory I as 2 peous Gun 10 videl factory bus 5 peous Smill urm ammunition factory has 2 peou	
Deputy Surgeon General J M B. Fogo Offic string Surgeon Gene ral British Forois Bombay	Number of office servants and their propositions—	
Dr. W.C. H. le von	Herd cleck. 2nd do 3rd do 3rd do 5rd	Annonity Rs 1 800 960 960 960 960 600 480 150 150 168 {exelu
Surgeon General Is d an Wed cal D partment Bombay	lour peons at Rs 7 per mensem T vo peons at Rs 4 per mensem One punkha puller pand by day (annas 6 p	per diem) n 120

(1287)

[Appendix IV

As follows --

The number of sepoys is madequate, and they are poorly paid on which account intelligent and smart sepoys cannot be had. In other Government offices, such as the secretariats (general nevenue &c , &c) and in the samitary commissioners office, they are paid from Rs 0 to 10 per mensem

Dr J Lumsdaine Samtary Commiss oner for Bomby

1 bavildar 3 peons each	, 1	
8 ,, ,, Monthly cost	6	, !
Annual	78	

A certain number of these men accompany the samitary commissioner through the districts, in fact when he is on tour, one or two only are left at the office for ordinary office work

Legatement-Colonel Young Officating Controller of Military Accounts Bombay (Con-troller's Office)

```
Servants of the office-
                                                       Rs
                                                         8
         1 Natk
         8 Peons
                                                        7 each
         1 Ferrash
. Controller of "I I or Accounts
                                                    Besides these there are
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the following for the Exam or Comen named and Clo Long Accounts
Fram or of Ordenine Accounts.
Framin or of Med or Accounts
Accounts Fram of Don rollers Office.
Funds (6th nhole building and offices" recommodated therem -Punds Offi Louise Fay Office Peans Curbs

> Rs 1 Conservancy havildar 1 Usher 12 9 2 Sweepers 7 each 1 Halalcore 18 1 Halalcore puckalhe 5 1 Blustie to supply water for clean 2 ing latrines 1 Nul of police guard 8 7 each

7 Police watchmen Pive servants attached to this office, viz -

Rs 1 havildar 8 2 peons each ditto G

all of whom in addition to their pay, receive grain compensation for dearness of provisions as unenlisted followers at an iverage of Re 1 13 per mensem

Presidency circle 2 peons at Rs 7 each Poons ,, at , 7 Southern Konkan circle 2t

There are five servants only attached to this office, u --1 naik of peens

4 peons

The pay of the first is Rs 8 per mensem, and of the others Rs 7 cech. In addition to then pay they receive compensation for dearness of grain, and a suit of clothes every other year

Attached to my office there are three servants, as below-

{2 on Rs 7 end monthly 1 on Rs 6 monthly

Two poons at Rs 7 each per mensem

l nal Rs 8 I peons Rs 7 each, with grain compensation in addition

The servants attached to this office are one bavildar at Rs 10 one nak at Rs 8 and sx poons at Rs 7 each per month also for punklin pullers engaged when necessary, at from four to six inner per diem, and one police remosie at Rs 11 per mensem

As follows -I havildar of 1 cons, on Rs 10 and compensation for deserves of grain

Major M Perron Examiner Pay Department Bombs;

Lecut Colonel D B Young Ofic at g Controller of M I tary Account Bombay (Pens on Lay Master's Office)

Major M A Roulandson Francincrof Commissurat, Cloth H and Barrack Accounts Boss

Licutement W L R Ander on n clarge Ordnance Learning a Office Bomba

Surgeon Vajor P S Turnb II, M D Examiner of Medical Ac-counts Bombas I ent Colonel D B Young Off, Controller of Viditary Accounts Be ni ay Accounts Branch

Caple off Cowper Presidency Paye after Bombry

C ton I J Tlacker Supera

(1289) Appendix IV

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2 peons on Re 7 each and compensation for dearness of provisions
1 moverdam of banads on Rs 11 data
                                       4 brands on Rs S each datto (factors and storrel
                                       1 hamals on Re 10 eyels (fyelory and stores)
                                       I fire engine lasear on Rs 10
                                      1 day and 2 might watchmen on Rs 11 each
                                      1 halaloure on Rs 13
  Berendser General H
Brooke Adjutant General Bom
                                      I bhostie
                                      1 sweeper
                                      1 laveldar Rs
                                      2 peons
7 do
                                                         8 each
                                                   22
                                                         7 each
                                                    72
                                      1 blastie
                                                         ŝ
                                      1 sweeper "
                                                         ¢
Bright er General G. Barrows
Omarter Master Seneral Bonday
                                      I lavildar of peoms
                                                                                            n
                                      2 peons
7 do
                                                                                                per month
                                      1 pressman
                                      1 sweeper
```

No blust es water being laid on the premises Government to lingation department, Rs. 7 13 0 Monthly rate paid by Colonel C O Maude Judge

Four peons of Rs 7 each per menseen, or Rs 330 per annum

9 Detail briefly the office procedure, and trace the course of a letter recurred in your office, in its passage through the office, and of the letter or memorandum replying to the first mentioned letter until your departmental reply issues

Colonel I I Willes Commissary Graeral Bengal

Advorate General Pener

A letter on receipt is docketted and registered, the previous letters quoted in it are put up, after a lisch it is given to the elerk to whose section it belongs. If the case is one which can be dealt with by the section it belongs It the east is the which can be dealt with dy into cleak with the and of regulations, precedents, &c he drifts a reply which is submitted for approval of the commissary general if the case requires an opinion or orders from the commissary general, the clerk submits it with any other papers which have bearing on the cise. On opunon being recorded or orders being passed the case is again given to the cleri of the section wil a drafts on the minute the draft is submitted for approval. On its being approved it is fur copied and issued The procedure is the same with any other letter replying to the first

Mayor General \ Comphell 2.4 Offic at mg 1 spector General of Ord ance and Mana mes Beneral

Letters on recent are opened at Culentia by the deputy inspectorgeneral of ordanace and at Smile by the assistant to the inspector

general of orderne At C leatte a letter received is materilled and dated by the deputy respector general of ordinance, who records his orders on it briefly and sends it out to the registrar who, after noting the name of the chall

whose business it a to deal with it sends it to the record beener The record Leeper after entering it in his consecutive dury and giving it a subject heading hands it over to the existent of the close to which it belongs, who cots an instruct of the subject to m his durry, just up the previous correspondence on the same subject (if there be any), and returns it to the record better, who now numbers it books through the papers, and, if concert, submarts it to

the cle I to whom it is assigned by the registric.

The cleri deals with the letter according to the rules of the office and the previous paper and scuels it with a memorinaum of the proposed action on it to the registrar, who initials it in I submits
it to the depity inspector general of ordernoe for approval. After approval by the deputy inspector

general a draft reply is framed and submitted for approval, and after approval it is fair-topied, signed, nn I despatehed

The letter and the rough draft reply after the letter I as been dated by the despatel or are sent to the record department, where the draft is entered in the diang, after which both are put in and recorded with other papers on the suspect of there be any Generally, all pipers are dealt with as above in succession as they are received, but priority as of

co use given to a objects of importance requiring immediate sitention. At Simla the assistant inspector general, after opening all the letter received, submits them

to the mapector general of archaese pounding out on yoursegery, steed on.

The mapector general of archaese pounding out may respuring early afterial on.

The mapector general metals and dates the m, and proving has orders briefly on them sends them
out to the office whose they are dealt with in some all at the same manner as described in the proceeding. paragraphs, except that an the first anstance they are sent to the senior clerk present instead of to the registing as at Calcutta and the drafts are approved by the inspector general

At Simia in consequence of insufficiency of the number of clerks, there is no sequence) cord keeper. The senior clerk performs the duties of the record keeper in addition to his own

Matters of mere routine are disposed of at once in the office, both at Calcuta and Simila, under the registers or the senior clerk. Rough drafts of all letters of any orthogones are submitted to the inspector general at Simila, and to the deputy inspector General at Calcutta, for approval before fair copies are prepared

Sproson General J. H. Ker Inner British Vederal Department and Principal Medical Officer, British Forces in India.

The office is divided into two brunches—the General Branch under The omee is giving in two or minutes—one creates braken unser the secretary, a here administrative, medical, sanitary and other questions are dealt with, and the Statistical Branch, in which the completion and preparation of the various periodical and other returns and reports

and preparation or one various parameters and intervention and apports
relating to British troops, the printing and issue of blank departmental
forms and books, the checking of indexts, the accounts of books, regulations, &o (the property of
Government) issued to copys and hospitals, and all correspondence in connection with the above are conducted under the supervision of the statistical officer

The post letters are opened by the secretary and statistical officer respectively General Branch

The day's receptisme entered in the dayry, the persons papers, if any, are countermarked and pat up, they are then dayaded and albeited,—papers relating to internal economy of hospitals and the subscription internal economy of hospitals and the subscription internal educations to the repolation; at tabeled to the efficie, there efficing movements of medical officers, applications, &e, to the cleak in charge of the medical officers' restire, the rest being retrined by the chief elerk

In ordinary routine cases, drafts are at once prepared and submitted for approval by the above, in the more important cases, notes, memoranda precis (when the correspondence is volummous) are put

up for orders Approved drufts, and drufts sent in by the secretary and surgeon general are fured and num bered by the copy ists, examined, and after signature, are issued by the despatcher

Indexes or regreters of receipts and issues are posted from the diary

The copyists assist in the putting away of papers in their allotted places

Malistical Branck

The dry's recepts we distributed by the cleik in change to the compilers of the various returns— unural monthly, weekly, &c., to be checked embodied in the general returns, or returned if meanest Correspondence relating to subjects dealt with in this branch and referred to above as tall on up by the clerk in charge who submits drafts for approval or notes for orders. Approved drafts and drafts sait in by the statistical officer and surgeon general are copied and numbered, and issued after signature by the despritcher

Correspondence with the officers of the department are conducted by the statistical officer direct order," but all correspondence with heads of departments and the authorities are recorded and "by order, registered in the head office of general branch, under the signature of the surgeon general

Returns are computed, four copied, &c, by the challs respectively allotted for the several returns and the statistical and sanitary reports drawn up by the suggeon general, secretary and statistical officer are also prepared for issue in this branch

S agron General J. I. Bertson M.D. Indern Med cal Service Bereal

The just is opened by the secretary on reaching office. That portion of it which requires no further procedure is docketted and filed at once. The remainder is worked in this way. The secretary sends

the letter down to the head assistant who glimes at it to recognize the contents, and passes it to the indexer. When he has entered it in the bool s, it is next transferred to if a record I copen, whose duty it is to attach it to its proper file in its proper place, and, after careful peru al, to add them to all references quoted or precedents bearing on the subject—in short, to prepare it for orders. It is then resubmitted to the head assistant who is responsible for its accuracy and comprehensements, and who is it likely to old my suggestions regreting its disposed batch my open representations of the fact that the second my suggestions regreting its disposed batch my proper represents to its detail, and it complete, present to the surgeon generally who generally write he orders promptly on the back of it. This is then rulened to the office, and a drift memorradium or copy prepared, which is again submitted for approved by the secretary, and faulty the fare copy is made and part up to be suggest. The fair copy is justly given to the disputcher, who has to repart is entellify and to see that all

netractions confuned in it are obeyed, such as a tit-ching original or copies, returning reports, &c, letters reported in the confuned in the confuned file, with the draft memorindism and any other deciments which belong to the care only the confuned by the office, as mean this restored to its place in the

rack

Dr I V Con nghoso Sin lars County s once with the Government

The letters are all opened by me They then go into the office to be are sectors are an opened by me. They then go rule the effice to be docketted and have persons papers and references pity to 10 actuar 11 cither draft the reply, if my is required, or write orders on which the reply is drifted 11 then passes. Occasionally, it is a disable to consult the statistical officer or the spiral resident. This is done demicrillently, and motice no delay, every the time which it takes a segment the latter, for a latter to go to C identity and have it which is the constitution of the office motion of the officer and the second of the office motion. of the office work, however, consists of unofficial references from the Government in the Home and Military Departments. The files are sent for opinion, and a note written and the file returned

C stall B Harrest Controller of M to a decembs Brazal

On recept a letter is-(1) Of raid and read by the head of the office (2) Registered

(8) Doel etted

(1) Indexed

(i) Corn leted (i.e., all previous correspondence connected with the matter of which it treats is put en ich iti

(6) The picket siten made over to the resident to the controller who man the ford small to the sul divi or of t e office to which the subject pertuns

To like set days on a transcense when a transparantees in the polar office of the dipriment (T). If the nutter much ediposed of a loat of encote my other office of the dipriment the claim. Load by a stod of the enly the sorders regif is if need are of possed twithout a day has table dipriming the a stant to the control of for the cut office the pupper of the control of the transcense and for the seath for report to the office concerned and for their set on support days the stant for report to the office concerned.

suel repo t

(9) When the laft supp eved to sent to the copying set on and the far copy, fiter being signed a wavele over to the despitable to the rate and the set unation and date of the disposal in the register enters the eddress in the letter despitable book and sends it off.

Maj O R Novembre &c estudiant Green, Vol tary D part Letters and ca es rece ed in the office are registe ed doel etted and submitted through the el ef accountant to tie assant contant gener lad account at general for a formation a the first act me They are then returned to the chief count, take marks and ditra

b tes them to the as stants concerned. These assistants with the help of the reference epartment b test them to the a status converted at these assertings when the large of the rare race spartment complete the cases at a planeceter's as see, lations to and salma them at the art of our all our noise as real of through thee cell accountant to the offers of the dep timent for days also also rate a special of by notes by the offers are seven on rin a to the defencement.

ant after copy is talen of the notes. As egg ds the others to cales on et in il o ders from the accomplant general and assistant accountant general a e again digit out by the chief accountant to the sastants concerned who doft the requiste ordes I char either a bon ted for appro al through the same channel and after approal rescot to the same section of the office to be coped

erom ned entered in the same register and despatched after a guature timile We too Sep 4 The rmy clothing department is both a fictory and no effect
1 Agest Army C are the department the store performs to the dry of eract a and
i super removable Title of sort therefore his passed to a ble
affice a consequently of a double had—not only that construct in
La-Tweey document of any hand on to reee pit is egisted in the office. If a then distributed Celmel B Water Sup dot a 1 Ag ut Army C mg

to each clert whose duty it a to attend to it for act on on t V le sel edale No 10 II — If an indext it is exam ted by the indent examiner. If is so est to spread for com-plance fined it is returned to correct on. The same course is followed on its again being received

m the office III — If pr sed for compliance t is made over to the maste tale adoptment, who propes a request a non-fixed scale on the tored protected for the cooling for the cloth and mater to be complete. the a d deat by manufactured clot ng or for the despatch of clot and mater t to co the ndent s present for materies in bulk

If t is a effer o any off or document affecting a tiler the off or the master to los tile sto es or packing department to sent by the office head electric to my one of the employees in tour directly selected to 0 a lid work peeu rottlem nu ctuing or atous lejat neat 1 rettle eq. of

seneration is elected to sput nto slape I coffee in depth to letter sent coording. If

If the letter or document a so c) offee wo k the ole allo roce westifinds he facts from published regula ons o Government letter in the mail tary department and prepares epily or finnes decuments accordingly. The details of duties as per set ed to No. 10

SCHEDULE 10

I stof the an cto od establish up t of the A my Clothing Departs of also githe details of the difest one for the and constant is to see f

	8 ax	Dat
D elgus 10	Min magne M. mmgm Prova	Dell
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II of ant sa	10 0 8 200 0 0 800 0 0	1 D is or once it in Lada for gainst adjust the many
		क्षा है हैं हैं से का के कि
		3
Excel sides d	50 C C 00 C B 200 C C	ते भारत विकास कर के कि प्राप्त कर के कि कि कि कि कि कि कि कि कि कि कि कि कि
Frame o Funq drafe d kulg	100 0 0 10 0 0 0 0	and he are not not as an experience of the second force and the second f
Y coat at	00 0 0 40 0 0 150 0 0	Propose and some to a girm some by a discount a con- rate p. bel con. I or paymen beek dispose
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Colonel T K Couner Director of Arms Remount Coeminons.

On receipt of a letter, I read it and pass it on to the office for registry and for previous references, if any, to be nut up. The documents are then returned to me, and I don't a reply or issue the necessary orders. The reply is then written and copied in the book, and if the matter is of importance, a separate bundle is made of the paper-connected with it, and all references are noted on the documents showing how the subject was disposed of

The above refer to matters of importance. In common cases the replies are drafted in the office

J H B Hallen Fig General

The head clerk attends duly at or alout 10 a w at the office of the general superintendent when all letters received are opened by the general superintendent and made over to the head clert, with notes as to the subject of the replies to be sent. The letters we then docketted

by the 2nd clerk, and passed over to the 4th clerk to be registered After being registered and numb real with the receipt or register in miler, they are brought bad to the 2nd clerk who chains them, by references in number, to former correspondence, after which they are sent to the head clerk, who, in accordance with notes received, in the out drafts of the replies, when we are to be good a recognised to proport). On the return of the drifts of the register which are sent to the general supermixed the proport). On the return of the drifts, day, intuitiled by the general supermixed to the register of segments after the engagement of the register of deep rich gain and the register of deep rich gain are not remarked by the head clerk, and posted. The approved drift of reals latter to relate the company of the mean time the most is been despetched, they are also doel cited and channed to the respective letters and their handles. There are two files or bundles (one for 'recepts,' and the other for "issues) for each of the following—

(1) Government of India and tary department. (2) Government of the North Western Provinces and Oudh

(3) (4) Government of the Punjab mil truy department

Government of the Language Governor general's agent Rajputava Director of army remount operations

(O) Assistant superintendent borse breeding operations, North Western Provinces and Raroniana.

Assistant superintendent, horse breeding operations, Punjab

Assacting superincencies, more necessary oper torons, rampo Miscellancoas, embureung correspondence with comptoiler general, controller of miniary accounts, accountmin-generals of the North Western Provinces and Pupple, civil officers of all the districts of North Wester Provinces, Rapputana and Pupple, officers commanding all the Native cavilry corps &c

Mayor General Sur P S Lutwo Adjutant den Ren, CRI Ge emi in Inda

We will take a letter from Government asking for Commanderin Chief's grinten on some questrin. On togeth the letter is sent by the chief clerk (who opens the d4k) to the head cleri of the brunch to whom the subject may appertun (ride lists of work lealings). If

to whom to escape any appear mit, meast it work in might be letter over to his record keeper and durit (loss man), who gets out necessary privious pures and current terms the letter with merices papers to hend clerk. The letter then set interest the papers and merican the letter with merices papers to hend clerk. The letter then set interest the papers and merican the letter with merices papers to hend clerk. them complete, makes them over to one of his clerks, who brings the contents of the letter north precis docket of the case stateles up the letter it end of comparison and then hands the papers to diarist. The draws enters the letter under its subject heading in day noting as a catch at bottom of entry, the duty number of previous entry in same case, to maintain check but < Hardsoenters in a nominal index sheet, kept with the duty, the names of officers or men referred to in letter. He then writes on precis of letter the dury number he has given it. The case completed he hands to his head

The head cleal reads up the case and notes clearly on precis low it stands, quoting orders or preordents, and a aggesting action for its disposal

He then sends at to the officer of branch who notes his remarks and opinion on precis, and sub

mits the ease to adjutant-general

must use eve as assume agreement with the prices doubtet (at leds in all even as a covering luctory of the matter from the beginning down to the letter we are following) and refers to the complision where receiving I. If this does no consideration, that the mill set a too sine control will droppe of limitify, or looks have trees on precess and ordiers it notes have reason as the control and ordiers it notes share the same of the control

the chief cleil has received the particular case in which the letter we are following is maried for schelule. He sends it to the branch officer that he may see the orders passed by adjutant general

It then goes to branch had clerk, he hands it to the draist, who writes ' schedi le ' opposite drar, entry of case and sends it again to chief clerk

The case is now briefly entered with others by chief clerk in a printed form of register schedule

and submitted by adjutant-general to the Commander in Chief Has I weekless (Bids, every one sheek) system is or her so the process, on I the ever connect hard your from the right and general colored death. I substantial officer to benefit held the death reply for Government and same to officer or benefit he had, who makes the officer of general for approach. Adultant general or needed or approach so the past general for the right of the r

forwards to adjutant general for sign sture. This done, the letter goes to branch where it is numbered. dated and despatched to Government

The draft is then corollated for perusal with other drafts of the day (every branch does this daily) to I reaches and others so that all may know what is long done throughout the office Aft regred than the draft is stricked up with its case (w. do not make look copie of our letters). The head clerk then notes on precise 'P' or D'', i.e., 'lending' or "deposit,' and hands it to diarist, who makes in diai; column a brief thetriet of the reply given to Government (our drines are indexes of receipts and is see we do not leep sequente indexes). He notes therein also 'P or D' and pais any m the pending of deposit along the content party, the case containing the Generalized letter so less followed

(Norn - The foregoing follows a letter requiring His I cellency's personal orders - But of course quite two thirds of our receipts are disposed of by order of the adjutant general under regulation Important and special ratters only being submitted to His I xeellency

Nevertheless in hun freds of cases the procedure described is lengthened and work increased when circular reference is made to departmental, general or commandia, officers, for opinion before final orders are passed)

Colonel C C Inl mem Offic at mg Quarter Meeter General in Is dia

Office procedure-The quarter master general, as a rile, upproves and signs the followmg papers -

(a) All correspondence with the Government of India

(b) All retion on selectule eases

(c) All danit general orders and erroulars

(d) All contempondence with Horse Guards (letters for Horse Guards are signed by His I scalliney the Comminder in Ch (f)

(c) All correspondence with their Excellencies if Commanders in-Chief and the quarter master generals of the Madras and Bombay presidencies

Officers in charge of branches dispose of all routine cases clearly provided for under the regula tions or by presedunt important cases, and cales about which there is any doubt, are prepared and submitted to the orders of the quarter master general

The chief clark performs the following duties-

(a) He is responsible to the quarter master general for the discipline, system, and arrangements of the office generally

(b) The contingent expenses of the office, stationery, issue of solaries, &c , &c , are supervised by him

(c) He is the custodian for the quarter master general of all confidential papers
(d) As personal assistant to the quarter master general he receives all current cases for him,

and distributes the same to branches after orders have been passed thereon

(e) He receives and opens all official letters, and france the dak for despatch by post

(c) In tearter an Opens at once it occurs and rained are can be regarded by love (f) He is the ordinary channel of communication between the office establishment and the offices in regard to all personal applications, leave, &c.
The following is a basic during of the office routine—

(a) The cluck clerk opens the dul and sends it to the officers for perusal

(b) On set un of the dak the chief clerk males over the portions relating to branches to the respective head clerks who have the papers entered in their drives

(c) After entry and completion with previous papers, head clerks of branches have the cases prepried for their respective officers

13 C. vent e ves, drafts for upgrown, and papers his a guidance we ordinan's solumited under

each day and are placed on the officers tables so as to be ready for attention early next morning Telegrams and urgent work, however, receive immediate attention (c) All documents for the quarter master general are ordinarily sent to the chief clerk for sub-

mission in due course, but when necessary officers verbally receive the quarter-master general's orders on cases (f) Cases relating to subjects of two branches are entered in the drames of both branches and

whon necessary submitted to the officers in respective charge before any action thereon emantics from (g) Head clerks of branches are responsible that all notion is tal en on papers previous to their

being finally deposited in the recent seem expensions care an assessment as a second one Priess previous to their being finally deposited in the recent seem. (I) The dusts of each day after being indexed are carculated for the persons of the officers, the chief clock, and head cled is of branches

Should any unpediment occur in the practical working of the foregoing airrangements, herd eleiks of bunches provide, if possible, a remedy and if unable to do so, represent the matter to the chief cler!

When there may be a sudden and special pressure in one branch and in another a temporary slackness of work, such instances are reported to the chief clerk, who is empowered to call upon any clerk to perform work additional to that which lies within his province under the branch system

The course of a letter in its pressige through the office and of its right is a follows—

It is opened and strunged by the clinf click and sent by but with the rest of the obstrey to all the officers for pussal and other. It is then passed on to the heat click of the branch to which it

properly belongs, by him it is sent to the digrist, who enters it in his digry puts up previous papers, if my and let uns it to the head clerk of the bigneh. The latter causes a pieces doel et to le prepared, writes an explanatory note thereon if necessary, and submits it to the officer of his branch through the chief clerk, who scrutinizes it before passing it on The officer of the brutch writes his remarks or orders on the precis docket and returns the case to

the clinef clerk to submit to the quarter master general for final orders, or pass on to the head clerk of

the branch for action, as the case may demand

On receiving I tell the case the head clerk of the highest arranges for the preparation of a draft of the exten ordered, which he submits through the clinef clerk for the approval of the officer of his branch, who returns it to the chief clerk for final approval by the quarter master-general, if necessary, or to press on to the head clerk of the branch The latter on a recent of the approved draft, sends at to the head Nature cleak by whomat is given

to a copyrist, the fair copy is carefully computed with the draft by the two European clerks, whose

weekly duty it may be to examine the copyists' work, and is then sent by the head clert of the branch through the chief clerk, for signature. After signature the chief olerk sends it to the despatching elerk who gives a number and dates it mails the retion taken on the letter to which it is a reply on the precis-locket and upon any previous drefts there may be in the case, weight and affixes postage labels to the cover, and sends it to the chief clerk for fr nk, when this has been done the despatcher sends at to the post office for delivery, sends the case to the record room for deposit, and the draft action to the indexer for entry in the index of letters written and filed

Colouri A. H. Murrey, Deputy Adjustant-General Royal Artiflery in India

On recespt of a letter, it is stamped with the date of recespt entered on a pree s docket, entered briefly in the drary, and put up with all former correspondence or orders relating to the subject, and a short report to the deputy assistant adjust uni-general, who either passes orders upon it himself, or submits it for the orders of the deputy ad

jutant-general, royal artillery The orders are then corned out by a cleak if a small matter the reply or whatever ection is ordered is prepared for signature of a large matter the storm instance that copy of the first and if of sufficient importunce the question is solicialed and submitted for the orders of His Decellency the Communicar in Cleaf. The reply after signature is expend numbered detail, compared with the original, and despatched in the ordinary manner and the disti or copy placed in the case

If no further action is required, the case is deposited, otherwise, it is kept pending a reply, which when received is treated in a similar manner to the foregoing

Colonel J Young Judge Ad verste General Bengal

A letter received is first stamped and registered in the office books and submitted, with references or provious communications on the same subject to me for report or reply. The reply is sent back to office, and after registry is made over for man-cuption to one of the writers Both draft and fur copies are then given to the examiner, by whom the fair copy is examined and submitted for signature. The despetcher than despatches it to the addressee

F F Cellins Esq., Principal Veterinary Surgeon Bengul Army

When a letter is received in principal veterinary surgeon's office, it is entered in the inward register, also a pieces of its contents. The unswer is then drafted by the principal veterinary surgeon twice capied by the clerk, a précis entered in the outward register the original is then despitched to its destination and a copy retained for filing in the office

Major A S Hunter Derector of Garneson Instruction in India.

Major H J Hallower, Inspector

of Gymnasia in India

A letter received in this office is docketted and registered by a clerk, I then write the reply, which is finally copied and despatched by a clerk Letters &c., received are registered by the clerk (only one in

office), numbered and connected with pievious papers, if any, on the subject. If the subject is one where a precedent exists, the matter is disposed of at once by a reply in recordance, which is duly entered on record, numbered and despatched, and the case filed among the office records. If the subject is one requiring the sanction of Government, the mode of procedure is as follows -

one requiring and scalars of two massis, was mose or processes as a course —

In example—"The mixed-color of persys for matriceles in place of ergo sixts."

Letter to quarter meter general from this office proposing the substitution of jorseys femical and departed my definition.

2nd -Reply from quarter master general calling for cost of proposed article (registered by

3rd -Reference to foregoing letter to clothing department, calling for a sample sersor, with cost (entered, noted in the register opposite reply from quarter master general, and despatched by clerk)

4th — Reply from the clothing department (registered by clerk)
5th — Replies to quarter master general's letter and forwards persey for approval (entered)

6th -Military department sanction received from the quarter-master general, also persey returned (duly registered and connected with previous papers)

7th -Jersey returned to clothing department, with intimation of its introduction sanctioned by Government (entered)

Sti -Draft general order introducing the jerseys forwarded to quarter-master general for

final promulgation (entered)

8th —General order promulgated , number duly entered on case, which is completed and deposi-

ted among records Major P W Donn Supernitend ent, Sintain Army Schools

The letters come mostly from officers commanding or from the sub-inspectors. They are handed to the office clerk to be entered and docketted, and are then laid before me The reply or forwarding I tter is roughly si etched by me or the accistant superintendent and given

to the clerk to work into an office draft, which on approval is fairly written, the office draft remaining for record

Indents after eatry and docket are checked with previous records by the eleck assistant, or myself
and passed by me, being their ferwrieled either to the adjutant-general for fluid approval, or to the

Stationery office for compliance
The invoices of articles issued on these indents are receipted by communiting officers sent to

this office, checked with the indents, and passed on with the office endorsure to the agents for supply that only, curescen which the making than present or war the direct varieties on the present of the present of the formation of the present of the present of the present of the region of the region of the region of the region of the region of the region of the region of the region of the present of the region of the Excellency the Commander in Clasfer decisions of Government on points referred are refused, and the substance thereof communicated to the parties concerned

Major P. H. Varel Super nien deut Vatro Army Schools Umbalia

If the letter is regarding regimental schools, I refer to the cor respondence with the regiment, its returns and the office record books. and answer the letter myself The clerk copies it into the letter book and despatches it

If the communication concerns a form's school pupil, enquiry is made from the head master, her reply and the verancular master of the stopy is seatine, if not sufficient I call up the student, and dispine in the passence of the islead master, then did it my reply, and not the dated of ansers on the original letter received, which is then prit away in its regimental file.

Other returns not examined by the late disse of the sommal school with me, to show them how,

when they are school musters, their errors will be detected in their returns

Examination papers are dealt with in co operation with the examiner of Government normal schools, Punjub whose tests show that all normal schools are working up to the standard—the Umballa normal school as well as the civil schools. The results are certificates sent up to hard quarters (adjutant general) for issue to successful competitors

Colonel R. A Moore, Acting Comm ssary General Vadras

The letter on recent is opened by the deputy commissing general He unitals it and make on it the date of recent. The letter is then carried to the personal assistant who takes it to the drup keeper to be dramed. It is then sent to the commissing percul- and after perculreturned to the personal assistant, who delines it to the head click of the branch to which it belongs

The head cleak, with the assistance of the record keeper, collects all previous orders and letters bearing on the sulfect and prepares a draft reply. The letter with the draft reply and all the previous correspondence is then sent to the officer in charge of that branch, who passes the draft, corrects it, or re writes it, as may be necessary

To writes it, he may we accessive.

The corrected duff with the letter and previous correspondence is finally sent to the cours savy
general for his approved. After being passed, by the commissary general, the lettly register to the present essentian who oblives it to a copyring clot. The fun copy is then sent for signature,
and is after wards handed to the deap atching clot, who numbers it and diaries it

The draft reply is filed in the office as a record, instead of copying the letter into a letter book

Colouel H F Clauser a charge of Ordonnee Department, Madras

Office hours are from 10 30 1 m to 1-30 P m and 2-30 P m to 5 P m On arrival at office of the deputy inspector general, the poet is taken to him and opened by him Important letters are sent on to the mspector general other letters sent in to the office

The manager of the office marks on the letters the section in which they have to be disposed of They are the theory of the control o respondence on the sum subject from the record deprisons, but and that the letters and correspond cace to the unspect of general or deputy for orders, if such leves not been entered on them On receiving such orders, the head of the section full a reply, which is first submitted to the nameger, receiving situ course, as well as well as the second that a city you must be incommon to the changes, then sent for approved to the objective, and offen wade it necessary, to the imspector, general. On the darks being intitled as uproved a fur copy is prepared in the current department, which after agenture as each to the despitcher for desanted by neon or past.

Surgeon General C. A. Gordon, M.D. G.B. Princ pal Medical Officer, Br tish Forces Madras

All documents are indexed and numbered immediately they are received. They are then bud before the secretary, who arranges and examines them Each document, as examined is at once disposed of In the

case of letters requiring replies, he if presterible, diaffs the letter then
and there placing the draft slip miside the particular correspondence to which it refers When sorted, &c , the correspondence is recorded by the manager who transmits matters connected with statistics to This nection of the office ordinary letters &c to the correspondence department. The drafts are then carefully we tten of and copied in the office received limitly we ten of and copied in the office received limitly we letter up trought to the occurrence of the ordinary letters are trought to the correlator for communication and spacetime of the office received for over-numerator made spacetime of the office received for over-numerator made spacetime of the office received for over-numerator made spacetime of the office received for over-numerator made spacetime of the office received for over-numerator made spacetime of the ordinary transfer of the over-numerator made spacetime of the over-numerator made surgeon general 10 transmitted to Ootacamund for instructions also all letters or other matters requiring the singeon general singuiture. A letter received in office is first indexed in a book, which shows the date of the letter, from whom reserved, its purport and its drary number in office. (The nee of the latter is to enable the clerk at once to lay his hands on the letter if subsequently required.) The surgout general or searciary blem writes the draft reply, of whole I also searciary required y arms as surgout general or searciary blem writes the draft reply, of whole I delik male at the copy and copies tinto a book. The latter shows the data, to whome so it its subject, and the page of the letter book in which it so sophed. The letter is then signed by the surgoun general or secretary and returned to the manager, who sees at entered in the despitch bool. The latter shows the number of the letter to whom aldressed, and date of despatch. If the letter las to be transmitted by post, it is weighed and stamped, and the particulars of weight and postage duly entered in the postage account

Dr H R. Ogwald m.v. Act ng Sa , on General, Indian Med cal Service Madma.

A letter received in this office is annotated on or disposed of at once by docket by the secretary and sent to be registered. When registered, if necessary, it is passed on to the record department, where the references

required for its disposed are supplied, and the correspondence submitted to the surgeon general in a complete form. It is then either disposed of by the surgeon general or returned to the see circy with cates, conformably to minch reply is drulted by the scentary or the manager. The drult is lead before the surgeon general for approxid, and presed on to the copying the sent the transcript with the drult to the examine for comparison and for the number and date. hen g added from a register kept by him. The subject is indexed by him. This done, the transcript to proceed before the surgeon general or secretary for significant and del versel to the despitebing either for the sum ston, who notes the number in the past book or peon's bool according as it may be depicted by jost on messenger, and the original letter with the dust passed on to the record denorment to the second process. department for deposit

Dr W II W Grash Talax.

The measure opens all leifers, &c., recovered in the office and inlees from the property of the program of the property of property are property of the property of property are property of the property of property are property of the property of property are property of the property of property of the property of property are property of the property of property of the property of property of the property of property of the property of property of the property of property of the property of property of the property of property of the property of property of the property of property of the property of property of the property of property of the property of property of the property of property of the property of property of the property of property of the property of property of the property of property of the property of property of the proper

commissioner after his report or remarks are received, the course being the same as that definled

above At the end of the month all papers of importance requiring permanent record are printed in a volume called the "Phoceedings of the Saustary Commissions," opper of which are sent to the Secretary of State, to Government, to the several immineplaties and local fund circles, and other

departments Colonel I W Ruleout Controller

Letters received by the controller may be grouped into two large of Military Accounts Madrias classes once, from undurated a clinical, each of the first mediance, or appelling against the decisions of departmental examiners, secondly, of letters to Government from heads of departments submitted through this office for

report on any inancral question involved The procedure adopted in the disposal of letters of the first class is to call for (from the examiners

The procedure supposed in this disposal of retens of the insecrets as to that for (Then the extantions concerned) all papers connected with the cl- m to be adjustanted on by the controller. With the first disass of letters, retenence is made to the respective examiners for any presse detailed information required in their disposal, and this data is embodied in a report to Government.

The course of a letter through the office, as bradly as follows, such as dependent of the course of a letter through the office, as bradly as follows, such as dependent of the course is opened by the controller of multary accounts, such and (with dide), and my remarks that present themselves recorded in penal thereon. The letter is activent to the land assistant of the course o ant, who notes any orders of Government, Se, required in its disposal, and sends the pipers to the diary ant, who notes any orders or Government, see, required in the alsystem, and sense me pipers to the dury keeper. After dury it is leiter is carried to the reference picker, who attaches may previous correspond-ence, and it orders, see called for and returns the papers to the level sessiant, who in cases where the controller does not dispose of the question himself, writes the disposal draft and forwards all papers the construct the transpose is any question maken. With some transposed that of the local factor and pure to the controller for approved. After approved the draft is affaint to the head feel, who causes it to be fart council, which he examines found draft and fart copy are duted and numbered. The draft is handled to the draft place pure in the draft is be handled to the draft place pure in the draft is be and the transpose. The draft is to the indexer to be a supported by the draft is to the indexer to be a supported by the draft is to the indexer to be a supported by the draft is to the indexer to be a supported by the draft is to the indexer to be a supported by the draft is to the indexer to be a supported by the draft is the draft in the draft is the draft in the draft in the draft in the draft is the draft in the draft i indexed. It then proceeds to the reference pad or who rotes it in his register and places it in its narticular bundle (all papers being filed according to subjects) The fair copy is taken to the controller, signed, and despatched by the cleaks allotted to that duty

Pay Eram ner Wadeas

The method of office procedure is substantially the same as detailed in this office docket No 1859 dated 20th November

detailed in this office docket No 1859 david 58th Noronites is simped thereon by the examines, and when necessary speech directions as to the reply are noted thereon by bins, it then present themselves the necessary speech directions as to the reply of the speech speech to the same type of the speech speech to the speech speech to the speech speech to the speech speech to the speech speech to the speech speech to the speech speech to the speech speech to the speech speech to the speech speech to the speech speech to the speech s

through the suprimensant was assumed exceeding when a squared we assumed 1990's.
Statements of objections and disulforments press the same number from the head clink of the
section in which the smit tales place through the suprimitedent and saistant examiner to the
examiner, and are copied and despatched as above detailed, the rough copy being filed as the office

Enaments of Commessiversi Citis og and Sind Accounts

The system of audit pursued will be found fully detriled in this office letter, to the Controller of Military Accounts, dated 21st December 1870, No 2556

Letters recented in the office are opened by the examiner, passed on to the head assistant, who strongs them and passes them on to the current department to be entered in the derry and distributed to the sudstors concerned who draft replies which pass chrough the manager and the herd resistant to the examiner, who can is them, after approval, to the current department to be fair copied and despatched

Exempter of Ordentee Accounts, Modras

On receipt of a letter in the office, the following procedure is observed -

I -It is opened and read by the evanuator and then sent to the superintendent

II -The superintendent marks on the document in red int the subdivision to which it relates III -It is then transferred to the registrar who marks the general number and registers it in the book lept for that purpose

IV -It is then sent to the section concerned for disposal, and if previous correspondence is required, it is obtained from the record department

V -Draft is prepared, and submitted to the examiner, through the superintendent of the office

VI -After approval, it is returned to the registrar acceives a despretch number, is fair-copied,

signed, entered in the despitch register, and then dispatched

VII —The draft is then put into the bundle in the subject to which it relates by the record department

Examiner of Medical Accounts

The letter is first opened by the examiner and then sent down to the office where it is read by the superintendent, who after seeing that it is numbered and registered, passes it on to the clerk in charge of the department to which the contents of the letter relate. This clerk then drifts a reply humself, or furnishes the necessary information to the superintendent, who drafts replies on important subjects.

The draft is then submitted to the examiner who either approves of

, or alters it or calls for further explanation on the subject. On the druft being finally approved by the examiner, he affixes his initials to it

It is then fair copied and signed by the examiner

Exam nor of Medical Funds Accounts, Madras

The letter is first opened by the examiner and is then sent down to the office, where it is numbered and registered. The manager having then ascertained what information is required or to what subject the letter refers, looks up what is necessary in the office records and drufts a reply, which is then sent up to the examiner for approval or otherwise. If the evanuare approve of the draft, he affives his include to it, and a fair copy is then made for his signature, and the letter is for airded to its destination.

Examiner Madres Military Funds Accounts Madras

The letter is first opened by the examiner and then sent down to the office, where it is examined by the head assistant, who after seeing it numbered and registered obtains from the clerk in charge of the subject to which the letter refers the required information to enable him to draft the reply The draft, when written, is sent up to the examiner,

who approves of it, calls for explanation, or makes any alteration be may consider necessary. When the draft is finally approved of a fair copy is made and the letter after being signed by the examiner is forwarded to its destination

M I tary Account Department, Accounts Branch Madris

Accounts are received from disbursing officers, presidency pay office commissionst, remount and clothing departments, and compilation statements, from the several examiners. Accounts are also furnished to this office by the several evi accounts for the furnished to this office by the several evi accountants general, excumers of public works occurred, and the several evi accounts bruch, Bengal and Bom-bay, and Home authorities. These we sentiment on its before. The furnishments of recouple and

charges on account of the Multary Department is prepared and furnished by this office monthly to the accountant general, multary department, other returns are also prepared and furnished to the several departments and Governments, including Home

several departments and Governments, nobulary Hame
All papers recovered in the office, accounts, statements, letters, fee, are opened by the officer in
charge, who notice on them the dates of recent of each document and nakes any neural a wholn may
be called for regarding its dappeal. They are afterwrist seen by the head assistant, who marks them
for distribution to the actions to which they appear when necessary and they are also seen by the
next sustant. They are then registed in the thay books and hadde over to the cerean departments
on the date assistant and the necessary color. Define are persured in officent objects testing testing and they are the
ministry department, and others of special importance to heads of olices, fee, are also presed by
the controller, ministry accounts'
They are then copied, examined, numbered, dated, signed and
desnatched despatched

Such questions, the disposal of which is dependent upon informations from other departments, before a final leply can be given, are referred to the departments concerned. The necessary replies are

issued afterwards on receipt of information

I residency Pay Office, Madrae.

The establishment of the presidency pay office is divided into two

sections, i.e., disbursement and account.

The work in the former section consists of the examination and record of the various claims presented for payment, of the preparation of cheques and transfer receipts for signature, each payments for sums below Rs 10, and the correct recovery of public demands and retreneliments

The work in the latter (account) section is mainly the compiling of the each account current and

The with it may rever (account) seems in many use commons to the second of the second

off and mataled by the paymaster

The record of the transactions, so far is it concerns the pryment section, hiving been thus completed, the documents are then made over to the assistant in charge of the account section for entry in the several registers appertaining to his section

The dishursements are forwarded at intervals of ten days to the pay examiner in the schedules introduced by circular, 15th November 1806, and the each account current (which includes every item of recent and payment on account of the public artice) is submitted punctually to the controller of of receips and payment or accounts to the pulsar services is soundated purcernity to the contraster of unblary accounts, accounts branch, and segment of persons (variant, Lord Chre's fund, military and medical and superamention) in which is diff inserted, in the space provided the dates on which the bills are passed for payment the bills being then transferred to the demand clerk for any special deduction And after the bill his been so reduced it is presel over for the preparation of cheque or consistent and makes the one may be through the resultant in charge, nho users in figures at the foot of the claim the amount for which it is finally asset. The bill is again returned to the assistant in charge with charge or transfer revent appert using theseto, who having satisfied himself that the mode of payment is that desired by the claimants, forwards the documents to the payment for signature.

All covers are invariably opened by the paymaster himself, who notes date of recept and any instructions regarding their reply. They then pass to the regist as who having entered them in the diary of received letters distributes them for disposal to the sections to which the references

apperlain

A letter if drafted by the paymenter, is sent to the copyrat. If penned by the clerks, it is sent through the head assistant to the prymaster for upprovid. It is then made over to the copyrst, and after being duly segmed is given to the despited elect for entry in his book.

Letters which have been replied to are sent to the diary clerk, who, having entered the mode of their disposal in his register, hands them over to the record Leener

L'extens t-Colonel A Searle Super sten leut a d'Agent, Army Clothaur Madras

The office consists of three sections or departments, v I D or indent department, which disposes of layers pertaining to all indents, either miscellaneous or in reference to unusual dottning, as also all clothing bills sent for certification, A. D., or account department, disposes of all papers connected with annual statements budgets, periodical accounts,

or returns, valuation of stores monetary and general subjects of adjustments benigets, personal retorants, or returns, valuation of stores monetary and general subjects of adjustments, vi also arrances and pricing accounts, C D or current departments which dispuses of all purpos of a general on muscliff and a monetary contractions of the properties of a general contraction of the properties of the propert is negociation for the corrections to the quantities of views or a contract model to the contract model of the contract managing them under the engaged between blends and subjects, in order to be able to supply or park up correspondance when required it is nonzent and or When a latter is received in the efficie, the superintendant office is ning road to park it is noted between did in this different them goes to the head constant, who notes on the head of it the drift department and to some In then goes to the seas exession, who board an election to the core of the control engineers.

The department of a general or more agent of the season of the sea

blink space or on a separate pace of paper and sends it to the head asserting for his approval. The mitials the same and sends it to the current depositment to be fun topic if an ordinary or routine paper, but if it is one intolying an important question, the dust is first sent to the superintendant. for approvil, who matrix and sends it to the current department to be fured. Usually the letters are answered to eame day if received by the morning post the day after it by the evening post.

Letters involving the rendering of accounts, or statements or elaborate explanations, are generally disposed of within the week

Beign ler-General P W Jobb, A butant General Madras

As soon as a letter is acceived, been opened, and returned to the manny r he prepares it for the diary and hands at over to the damykeeper for regret y. The letter is then sent to the assistant adjutant-general or other officer of the department who had not previously seen

generate or users under the class upwerful to the first better than the first better than the first better the same of the party of the first better to the deals, where breames the second the subjects and proteons entitle the entering the first better to the death yet as various correspond ence on this subjects and proteons entitle the entering the death of the deathy or assistant adjutting-general as the case may be, who sets that his orders have been carried out corrects and that the during machine the case may be, who sets that his orders have been carried out corrects and that the during machine the case may be, who sets that his orders have been carried out corrects and that the during machine the case may be, who sets that his orders have been carried out corrects and that the during the case of the case mg it for the adjustmat general or Commander in Clust. Papers for the Commander in Clust are collected by the manager and given over to the adjustant-general twice a weel or oftener, as may be collected by the manager and given over to the edutant-general terms a weel or offenes, as may be convenued for the Commander on their to see in . On the orbit being timely passed, self or by an officer of the department or the Commander on Clinof it is sent on to the monager, who gives it to a copiest for writing far. It is then unableved and dutd, commandely the extreme sail sees it to a collect of a signature. After reform, it is placed in its over and handed over to the despatching elect, for registry and by him sees to the peets office or greater and by him sees to the peets office or over the major of the despatching for delivery to the addresses. The orderly accounting to delivery not start by showing the segecture of the party also received the paper duly extremely also.

It sometimes impress that a paper or letter cannot to dispose, of of the int in a shore. Reference

may perhaps be necessary to other departments or further information required. This of course causes delay, but the above procedure is adopted or repeated in each case until fund disposal

Mayor John Fring Offe sting Quarter Master General Madess

(1) A letter received in this office is opered by an officer, who marks thereon his orders or distribution, (2) it comes to the manager, who preses it on to the references who notes in the register if it is a reply to a reference, and he dockets it if necessary, (3) it is then passed on to be regestered in the dary and numbered (1) it is brought back to the manager, who sends it if necessary for former papers to the record keeper and referencer, (a) on receipt from the record keeper it is either sent to the officer or manager, or clerks, for disposal The draft," if from the latter, is sent to the sent to the omeer or manager, or occurs, on anymous and the process of the sent to the occur of the sent to the occur of the sent to the occur of the sent of the

Colonel G P B Sl crard Judge Advocate General, Madras

All letters are opened by the judge advocate general and presed on with orders to the uncoveranted assistant at once if received during office hours, or on the following morning if otherwise, who drifts the reply and sends it up again to the judge advocate general for approval Alter approval it is fair copied, signed, and despitched in the evening Letters received are, after disposal, entered in the dirry

L entenant Colonel M W Wil loughby, Acting Community Gen eral Bombay

As explained in reply to question 3, the commissiry-general and the deputy commissary-general comprise the staff of the head quarter cal Emiss of the All letters, peoples, &c, are in the first instance on the medical folial and the state of the All letters, peoples, &c, are in the first instance opened by the deputy commissary general, who notes his adders on them for disposal. The letters run thin premise by the unovernated users in to the commissing general, registered, and distributed to the head decise of the branches to which they relate, by

whom the replies are drafted and submitted through the uncovenanted assistant to the deputy commissary general for approval, and if of sufficient importance they go on to the commissary general, with the pipers relating to the correspondence attached, otherwise they are returned by the deputy commissary general to the office to be copied, after which they are numbered, dated, signed, registered, stamped, and despatched

samings, nue espectives.

The commissive poerri signs all leitors to Government, heads of departments, and others of speeni importance. The ordinary letters are signed by the departy commissing speeni. To examplify the routes on disapseng of references, a letter from the inspector-general of ordinance and megrames enquing who should be held respected for certain defenses can a consequence of ordinance traces sent through the commissions the department, is taken as an illustrative case. The packet is opened by the deputy commissury general, who, after endorang his opinion or instruction, hands it to the uncovarianted assistant to the commissury general who peruses and sends it to the registering oler). After registration the letter goes to the heed clerk of the office as it apparaism. regressing containing the state of the control of the state of the sta despatching clerk, who obtains the signature of the deputy commissing general and then registers, stamps, and despatches it

The letter, on receipt in the executive commissarint office, is opened, perused, registered, reply drafted, fur copied signed, registored, stamped, and despatched as above, and when the reply is received in the commissary general's office, the same course is observed up to preparation of the draft reply to the inspector general of ordnance and magazines, which, with all papers attached, goes through the deputy commissary-general to the commissury general for approval, and the latter officer signs the

fair copy.

Major General W S Hatch Inspector General of Ordinance and Megazines, Bombay

All documents received are first opened by myself On those to which an immediate leply is possible I at once note the reply to be given. All me then sent to the head clerk, who registers and distri-butes them to the several burnelies of the office. Indents, committee

Duties them to the spring lambdars of the other induced proceedings, &c, are then examined and sent to the deputy inspectorgoneral for decision, who in doubtful cross, consults me before deading. These that are presed are
then stamped and relatived to the persons concerned. Letters or memorrands calling for explanations, used stampled and sentrace to the persons contermed. Lotters of memoryand cumps are expressioned. With other correspondence files of previous progress on the subject use sent in to the deputy impacting general or myself, with, on ordinary subjects, a rough dwit of proposed risply by sent offset of transformer and or myself, with, on ordinary subjects, a rough dwit of proposed risply by sent offset of transformer and or myself. The content of the conten then sent to be copied, registered, and returned for signature

Deputy Surgeon General I M S Fogo Officiating Surgeon General British Forces Bombay

A letter, when received, is first of all read by the secretary and sent to the head clerk, who gives it to the clerk who keeps the compilations to be registered. It is then given back to the head clerk, who sends it bud to the secretary, along with the previous correspondence, when necessary. The letter is then laid by him before the surgeon-

general for his instructions, and a draft reply is prepared accordingly and sent to the head clerk, who gives it to a clerk to be copied fan. It is then compared by the head clerk and sent to the secretary To support the second of the s

In many instances letters or memoranda have to be referred to the deputy surgeons-general and by them to medical officers for report explanation, or opinion, and, when retained by them to the office, the same course of procedure as stated in the preceding paragraph is observed

Dr W G Hunter Surgeon Gene Irdina Medical Department,

The office is under the control of a secretary, who is assisted by a chief clerk. A letter on matters of departmental detail, when received by the scenerary, is registered, and submitted by him to the surgeon-general for his orders. When these are given, a toply is drifted and handed over to the chief clerk who issues it to copyist. The fair copy general for his older. When these one given, right, is drifted and handed over to the chief clork, who issues it to copyrist. The fair copy is examined by the chief clork, registered, and submitted for segnature. The drift made is kept to

record copy. The reply is generally despitched on the evening of the dry it is received. This is the procedure of an ordinary departmental routine letter, but the mass of the correspondence relates to matters of reference from other departments, and will, letters of this nature the procedure is different, as reports and omnions may have to be obtained from departmental officers before they can be ansu ered

Dr. J. Lauseda ne San tary Com muss oner for Bombay

The post is opened and examined by the assistant to the suntary commissioner, and all papers are first stamped, received, and registered They are then sorted, and those of a routine nature, such as

tered. Inc. you does not seen a receip, not uses on a rottime struct, such as the sections to which they pertiam. Then they return, are registed to the deaths in entrage of the sections to which they pertiam. Then it is a monthly negative of borders and deaths for a particular distinct, the clerk for the registration section goes carefully through the figures, and if they are certeed, he corries them to the accruaing tabilit statement for that distinct. If there we cross—stall there we very frequently-facy me pointed out in a lotter which asks for the necessary corrections and the rotanssussion of the return. The same course is followed with overy ordinary returns as the so of cholera vicemation, rainfull, sab sod, water level, &c. Another cleak has charge of all papers relating to the pay and allowances of the subordin its district establishments and of applications for leave, trunsfer, and promotion There is also the correspondence branch Here there is great room for improvement, for much of the correspondence is of the most ordinary land, connected with delay in umprovement, for must or no correspondents so two more country link, conductes a till celly a continue or circus in figures. And yet for ward of a responsible granted office to dispose of it, it all has to go to the suntary commensumer. He may be in Bendry, but more frequently be will be on tour, and wholeshe be at Curvar or at Encelving, a bully peached has to be despetted of the central office. There is necessarily great dolsy in deviling with motions that might be settled off hand tentral control factor is uncertainty generous an arcting that more take angine or section on that in Bonday. All questions reporting an opinion, and those referred for report are of course desilt with by the establary commissioner shone, but the assession tents up will the necessary proper, and see beforehand that the information obtainable from office records is correctly given. Outstand letters are regulated and dependent either from the control dise, or from wherever the smartery commissionary. may happen to be The resistant is stationary at the central office, and signs some of the more ordinary issues when the sanitary commissioner is on tour

Lorotenant-Colonel D B Young Officialing Controller of M'ly Ac counts Bombry (Contly a Office) References and letters after perusal by controller, are sent to the assistants in charge of branches, who either-

(i) carry out his orders minuted thereon, or

(2) if no orders are minuted, they personally see him and receive his orders, or

(3) prepare a draft of the septy, or application for farther information, proposed to be sent out. In either case the draft of the reply or letter is submitted to the controller for approval

An extension case now make our conjugation of the whole or part as may soon necessary, being only for the whole or part as may soon necessary, being only left when the subject to of any imperiation, or the whole or part as may soon necessary, being only left when the subject to of any imperiation, or they unformation contained therein is hely to be needed. any of the offices of this department afterwards in dealing with claims &c

Replies to references from the officers of this department are given in the form of a memorandum, and to those from commanding officers and paymenters of troops on the reference itself. All unnecessary verbrige and copying are avoided as much us possible

The orders of Go ermeent which are always punted and of which a few spare copies are received as a rule are merely entered in a bool under their number and date, and assaed to the officers of this

department whom each order concerns who sign and return the book References originating in this office we made under the controller's orders, after full considers-

the adversace originating in this cause who made made the continuer's overs, "treet into considera-tion of the subject invitor," any correspondence to accompany long us a rule and in original Budget printed forms are sent out to heads of departments and offices in August, by whom they have to be filled in and vistorine by the last of Ordolor On accept, they us sent to the accument concerned for review. If necessity, his report is communicated to the budgetting office for con-dication. When all the modelful nutrievits are really, the consolidated budget estimate is propaged in occusion when his secretarial materials are reary, the componented budget elements is prepared in this offer gyring all explanations of differences as compared with the processe estimate and it is few anded to the accountant-general making department, and the Bombay Government about the maddle of December Grants 5 "specimental may and otherwances," if "celebraturel," 13 "see transpects, 11st miscellances searces," and grants 16 and 17 underson effects exist esc, are wholly pay used in this office, which also assists heads of departments in every way in its power in preparing then estamates

Materials for the explanatory statement of differences are collected as the expenditure proceeds, the cause of every important difference more or less, being at once inquired into and noted after the

accounts for each month have been made up

A letter on receipt in the office is first registered and given to the assistant to whose branch it opportuns, who refers to the former proceedings in the marker, if my and the unit out it and proceeded sterring out the subject, and then submaris the cree to the controller for orders or riew of orthe proposed reply, when the cree seems to define in of no dealty for of my reference which may appear to be necessary. Once automatical to the controller, he other disposes of humself or manutes his orders thereon which me then enried out in the office

A fur early of the suply or refunnce is then made and despatched to its addres , after which the papers are filed up, the number and date of the outward letter and its address being entered in the

register against the inward letter which called it forth

On the receipt of the reply to a reference the original reference to the controller is disposed of either the substance of the material parts of such reply being embedded in the answer, or when the roply contains all that needs to be said it is sent in original under a docket or with a short meno-randium in timating the controller's concurrence therein, if it is should seem to be necessary

All references more than a w el in the office ar entered in a return of in answered references which is laid weel ly before the controller with remarks explaining why they could not be disposed of Should a long delayed answer to a reference from this office he the cause, a reminder is then sent to the officer to whom the reference was made.

Appendix IV]

On recent a letter is immediately stringed with the drie of recent, registered (a c, als number date subject and from whom re-Major W Perrent Examiner, Pay Department Rossbay cerred, entered in a register for that purpose, called the "register of mward references"), and after perusal by the examiner is sent to the assistant examiner, from whom it passes to the superintendent, and then on to the auditor of the

branch to which it islates

The auditor drufts a reply-in doubtful or difficult cases consults the examiner before doing so This draft letter or memorandum posses through the branch supervisor to the examiner when approved, is four-copied in the copyist branch, and after signature by the examiner is handed over to the despatching clerk for transmission by job on poor.

The number given to this teply and the drie me then entered against the reference in the "register of inward references," and the procedure is complete.

European and cavil pensioners are paid monthly, and pensioners

L extenset-Calonel D B 100mg Officest ng Controller of Mil tary Acrounts Bembey (Penson Pay Master s Office)

of the Nature army quarterly, the pension psymasters visiting certain stations included in their respective circles for the latter purpose Monthly accounts of their disbursements are rendered to the pay exammer for audit and adjustment

The course through which a letter preser in their offices is much the same as in the other offices of this department

Mager M. A. Reylandson, Pr. muter Court searcht Cloth og and Barrack Accounts Betalog

The procedure in regard to the examination of the recounts received in this office is as follows -

in this office is as rotions —
(1) On recept they us registered by the registay detl., and made over to the calculating branch, by which all the criteritations are tested. They are then made over to the assistant auditors, whose duty it is to all the contract or be arm rates charged in the best. The accounts then check the indents with bills and the contract or b zum rates charged in the lactir

undergo would by the auditors an operate statements of objectionable items, which are revised first by the head assistant and then by the examiner. They are then classified, and afterwards made over to the compiling branch for the purpose of the necessary information being extracted for the stateties. furnished by this office After compilation, and on receipt of satisfactory reply to objections, they are filed

(2) A letter received in this office is after perusal by the examiner, entered in a register kept for the pulpose, after which it is made over to the auditors of the branch to which it relates for disposal

(3) The letter or memorandum replying to a communication is diafted by the auditors concernel, and passed through the head assistant to the evanuer. After approval it is taken to the copying branch, where it is fair copied and then made over for examination to the party who drafted the same, by whom it is made over to the registrar for the purpose of being numbered and despatched

Letutement W R L Anderson n charge Ord unce Exampler's Office Bombay

Returns and documents received for adisposal are duly registered in the general bianch and then made over through the record keeper to the senior clerk of the office section, with whom the disposal primarily rests On disposal, the necessary audit statement, or letter or memo rindom, or bill, as the case may be is passed on by such seator cleak to

the general branch for secutary by the superintendent before approval by the examiner. On examiner's approval the audit statement, or letter, or memorandum or bill is brought back to the general branch

spröved the andit statement, or lette, or memorandum or lell is brought had to the general branch to be fin-copped, to have rough and fin coppes compand by the clerk or souther to what is appearing, and for final depaths of time copy where agents, and both cepter us numbered and deted and the fun copys agent of the rough copy is then baken presence of by the second keeper. Thus, then, a letter, not on some general subject, when received, and such into the effice by the received by the regarded read of the general branch, and from it to be delived by the received legant to the particular clerk or office section to thesh it proprians for disposal. Thus uply, if one were needed, and would be required to the particular clerk or office section to the artificial for disposal. The roph, if one were needed, back to the general branch in the which it refers by seat to the general branch in the contracted by the clerk or section by which draft of reply as a submitted. This reply would then be regardered numbered, and dated, and found the plant of from the general branch or which after legant by the clerk or section by which draft of reply as a submitted. This reply would then be regardered numbered, and dated, and found had been depended and the section of the submitted of the section

as all others

Surgeon M jor P S Tembell

The letters, after being opened and perused by the examiner are stamped and registered, and thereafter distarbuted by the superintendent of the office to the several assistants. Replies thereto are diafted by these assistants and handed over to the superintendent, who after examining them, sends them to the examiner for approval, and, after hong corrected and mutualed by him are copied, registered, and despatched by the copysst

Lee tens at Colonel D B Lonng Offic it ng Controller Maints 3 Ac counts Bombay (Accounts Branch)

All letters and returns received pass through the officer in charge of the branch and the head resistant to the registry clerk, who after stamping the documents with the date of recent and registering the letters, distributes them to the bruncles to which they belong. In the brunches it e letters and returns are indexed the semior clerk disposing

of the letters, and the other chell's the returns, verifying and if necessary compiling them into returns and accounts rendered from the office

On recount of a letter it is gener lly fast seen by the officer in charge of the branch, and presed on through the head assistant to the argusta, clerk, who after registering gates it to the senior clerk on determine to which a seemings. The senior left, has the letter i detect in 1 s letter defect for rely and sends to distill through the he diss, that the the officer in direct ned rugs of the letter. After the darks is passed it is fair on all This done the fair only is numbered dated and eat for so, after all cities despitched. of the Irrnel to which thelongs. The senior lerk has the letter a deced in his branch drefts the

Capia a H Cowjer Presiden y Payen er Bomb y

The office procedure as as follows -- The nost as received by a clerk especially deputed to the drifty ho stamps the drie of recent, of e ch especial departer of the content of the promise The post safter Private a structure to the see ear of one one enter to diposal. It lettle them so end a replied to ly their juster o by the superituding election that one on side the order of the jumaster according to tampo timeo. The eight less copelred signed of tunder on er registated stamped a didespatched by the responsible clerk.

Coleard I Th eke Supersu end out Army Cloth or Bembay

The department is doubled note three branches-(a) superinte dent's office

(b) store branch under the store keeper (c) factory under the master tailor

All indicate for clothing & or a created a large with much states and the states of the states of the states which is the states of the states which is presented in mid over munch by the states of branch for it is easy as the states of the

(a) Placed leftere the superintendent registered in the superintendents office transferred to the brunch to all chit appetra as If 10 opply a separate tack that the complate on to held to belongs and a note made on the register than this become of sposed of. When an answer a secessary the branch concerned of their sends at to the a permittendent with a dust riply or the reformation. sary the hunch concerned e that sends at to the a premisesistat with a daffer ply or at saforms ton which my a real him to rely When the reply sees the number and the of ach reply are regards they the recod keeper in the meant registe eposite the entry of the rand better when the relevant means a fine of the configuration of the reply in 18, not per competition (6). It eletter or memorand an replying to the normal test each to register the borged affect is also a real fine register that the second of the reply in the configuration of the reply in the register of the register of the results of the register of the register of the register of the contract of the contract of the contract of the contract of the register of the re

reg ste by the despatch ng clerk, and a then posted

B galer-Gene a H F Bracke, Advatant G mer I Bumba;

The letter is opened by the chief clerk and by him sent to the branch to which thes bject appe trans. It is the error steed and examined by the head of rk. has builts it with my remarks that may

be necessary to the banel offic who if the matter some of no tage

Cases 1 let the branch offeers are u able to h pose of are submitted for the consideration of

the all tant general will save smalls they may so as less necessary.

It is man no mill cases require the store of the Commander not of a combinated by the night not performed by the night not received as the committee of the committee of the night necessary. then hy trut e errl pomily p pe s in the man e pres bed for e dans ; co responden a

Bug d gd Gem CBro rfa, erGn Rubo Two general registers are liept-one in in dia e o t

The office is oiled by brineles 1 of brinel leeps to one of siled are Inded unto 24 fe daigs. The subjects are filed a reeo Is

reto is it die indeed in the 24 fe on get The surjust on theid it compiles to make it is compiled to a machine in 1 spood of the promoting in one of indeed the 1 three were given and that be tail to include the promoting in one of indeed the 1 three were given and the 1 three indeed in the 1 three indeed in the 1 three indeed in the 1 three indeed in the 1 three indeed in the 1 three indeed in the 1 three indeed in the 1 three indeed in the 1 three indeed in the 1 three indeed in the 1 three indeed in the 1 three indeed in the 1 three indeed in the 1 three indeed in three indeed in the 1 three indeed in three indeed in the 1 three indeed in three Any control of the property of the party of the property of th

man let in Cl of for or lars

C CO Mude Judge Adom Cars I wa

Tie letter by post are boght to the pidge ad ocate general and enod by lin. They are the replied to and filed or submitted to the opened by 1 n They are the replied to and field or submitted to the Communiter Chief for orders as the case n y be All letters rece and in the office are disafted by the page ad ceste general there being no deputy or

deputy or set it there parties Sipose a letter siece, ed forwarding an application for a general court mart all a eport is in le o the application for general court mant al and se t a il for and g letter to the adjutant general for subm se on to the Comma der n Ch of

Artiflery r g me tal questions are subau ted by the a sestant diptant g neral royal artifler;

(1301)

Detail the number of clerks and writers in your department, (a) at head quarters,
(b) clsewhere,

and briefly then respective duties

Colonel J I Willes, Commis sary General Bougul

The information is given in answer S, and the following contains the rules for the conduct of the work of executive offices -

Circular by Commissary General .- No 5, dated Fort William, the 22nd January 1877

M http:// Department No 472, as nowy separament for 012, by order or dated 9th Lebrary 18 o business in exe Military Department Ao 1158, dated 21st December 1876

By order of Government, the recompanying rules for the conduct of business in executive offices have been framed for general observance in

2 Government believe that the practical henefit of these rules will be the simplification of worl in executive commissional offices generally, and that a uniform system will afford the means of meeting an excess of work in one direction by reduction in another, with a corresponding transfer of writers from one station to another and thus male it possible for the existing office establishment of the department to cope with the work, even if no decrease of establishment would be fersible

Government further remark that it is "possible that work may have increased in some direct 3 tions, but the first and most obvious remedy is to attempt to decrease it in others by simplification and condensation of existing forms returns, and procedure in the conduct of executive office work", and Government look to the supervising and executive officers of the deputment to make the necessary efforts to reduce and supplies work as fin set it tests with them to do so. The commissary general, therefore, now calls on deputes commissary general and executive commissary entered suggestions and proposals in accordance with the views of Government.

4 On receipt of the rules now published, executive commissional officers should at once bring into operation the distribution of work ordered, reporting after six months how the system his

be Iton

On accept of these reports, deputies commissing general will furnish a report for the circle, showing what transfers from one office to another they would propose, and what merease, if my, is

necessary in the entire executive office establishment of the errole
6 Lizentino commissariat officers must bear in mind that Government look for a decrease rather than an increase of office establishment from the system now ordered, and they are enjoined to abstrun from recommending mercases which are not absolutely necessary, and to be most careful to allot only the number of writers actually required for each section of the work of the office. If existing establishments are proving insufficient because they are clogged with men who are inefficient, executive commission officers will be held responsible that, in the interests of the State, such men are brought forward for removal from the department, as the commissary-general cannot apply to Government to increase establishments to avoid distuibing incompetent men in their present positions

Rules for the distribution of worl in executive commissarial offices

- April from the duties of head assistants, the work of executive commission offices should be divided into four sections, as follows -
 - Cash and disb assements Т 2
 - Check and audit (cash)
 - Store and stool Miscellincons, the sub divisions of which will be periodicals, contracts, equipment of troops
- and commands, miscellaneous and copying
- II To each section clerks should be illotted in proportion to the work to be performed III The duties of herd assistants will comprise-

General supervision of all work, and on occasions of emergency to detail the assistance to

be given by one branch to mother To see to the punctual submission of all accounts and returns

- To examine the budget estimates after prepuration, and note all changes affecting the expenditure of the department To see that complements of stores are always kept up, and indents sent to supply deficiencies
- 5 To examine, and if necessary leaves, lephos to examiner's objections, lettenehments, and remains letters, seeing that the lephos are to the point and complete, and bringing specially to the
- notice of the executive commissan it offices such as may require his particular attention

 6 To revise righter to the pay communer and examiner of commissarrat accounts' objections and retrenchments The executive officer to supervise and correct replies himself, so us to prevent

continued and unnecessary correspondence and delay in settling the points at issue
7. To investigate catefully novel and doubtful charges or charges for unauthorized purposes or

supplies, which the check with is note to be writed to bring to his notece

8 To super use the check of indents by the sections to which they pertain, and to see that they are correctly complied with, and to check and pass for compliance indents for carriage and establish ments required by corps on the march

(1305) [Appendix IV

9 To see that proper receipts in fall and no demand cortificates are taken from contractors and others before giving up the security deposits

10 To see that tender forms are properly filled in and contract deeds properly prepared and executed also to see that tenders are invited on prescribed dates, and to bring to notice any infractions

19. The sect that no solvered resident section is not received in the office monthly duly segmed by Latopean subsularities concerned

13. To examine and check every cheque resued d dy To dispose druly of correspondence received by jost, &e , taking orders on each point

The drifts of implies to ordinary letters written by writers of sections to which they pertuin 15 me to be corrected by the head assistant, who should when passing there not permit my point requiring explanation to be overlooked 16 To scrutimize mefficient bilances of cush, store and stock, talang notes of such items as are

difficult or likely to take a long time in adjustment and to bring the same or any arrears in any section of the office momentally and prominently to the notice of the executive commencated officer.

17 To inspect and initial the daily attendance book, and submit the same to executive com-

missarint officer

To inspect and initial weekly the recount of postage labels 18 10 To prepue nestructions to gomeshias, agents or peons proceeding on command with troops,

Ii To test cash and store-ledgers monthly after they are balunced

cattle or stores 20 To talle cure that equipment of troops are made agreeable to regulations, and, when in excess

of scale to take steps to call for the requeste at thout;
21 To unital all papers after scrutiny and before submission to the executive commissariat officer for signitine

23 To see that general orders and carcular orders are attended to, and that any action necessary on receipt of the orders is taken

IV The duties of the four sections among which the work of the office is to be divided will be as follows -

I -CASH AND DISBURSE IEM STORY To compile the monthly cash account current furnished to the controller of mulitary accounts,

recount branch, and the exam ner of commissari, t accounts 2 To compile the inefficient balance statement furnished to the examiner of commissariat accounts with ille each account current

3 To prepare disbursement statements to agree with the ledger headings—

Cash Advances, Transfers Retrenchments

for transmission to the examiner of commissariat accounts on the 11th 21st and last day of each month and numbering senative all the vouchers performing thereto taking one that dry of chell are originals populy agreed and recepted, that they properly support the stems of disbursement, and that all erasues or iffertions are intrilled.

4 To keep the duly eash book, in which all the monetary transactions will be entered duly as

they occur 5 To post duly from the detail given in the counterfoil of cheque look and the register of cheques the several ledgers disbursements, advinces transfers and from the counterfoil of the nultary remittance order book all recoveries on account of retremehments, &c computing daily from the

ledgers and several registers of each transactions the multing account and a ledger

6 To I cap the counterful recent book (Bengal form 181) greating receipts in the form to all

parties who pay money into the office or into the erral tensure for the office, whether on account of miscellaneous receipts and recoveres or deposits (not troper meent form paper)

To formed all parties fending money to the office, whether in payment of racorense or as chosens with a treasury receiving ender in Bengel form 513, instructing them to pay the money into the cut it resum; und luming had the treasury received in the cut it resum; offices received in the office the researy office in the cut it return; and luming had the treasury received in the office the received in Engal form 181 is to be delivered to the pave.

8 Po I cop the register of miscellar cons recents and recoveries (Bengrit torna 106), the entries in which are to be made dily as soon each transaction is completed, i.e., when the treasury officer's

of contract deeds

receipt for the money comes to band

0 To keep the regreter of renultances to banks and evel treasures, Bengal form 118, in which all pryments into the civil treasury, whether on account of recoveries or deposits, are to be entered

Norr—Sama recovered in parts of constantings (witness transfer or retearch eats) if ong) for itself to the c. T terminy are not recent on all m and in goods of the regions. The new (faster regions the transmit of the following of the regions of the feet of t &c &c as the case may be.

10 To I cep the negatier of recents of miscell means dejouts, Beng I form 116, in which all the deposit transcritors (not 1: Government loan paper) are to be recorded daily as they occur 11 10 I cep the index to the register of recents of miscell means deposits Bengal form 110, in

which are to be posted all transactions as they are record d in the deject register

13 To kep the regates of reprysents of mescharcos deposits, Bengal form 117 in which all represents are to be recorded the day on which they are made 13 To be put be regreted to concennent to m paper deep set on seconds, form 1, appendix Y, of the bulls of eachinger rules of 1367. The recept is no to be recorded as soon as the paper concess to

hand and refunds are to be noted immediately that they are made. An extract from this r gi ter, showing what Government form papers have been forwarded to, or received from, the general or lat-treasury is to be made on the last day of each month and sent to controller of military accounts, necount branch

To proper the following schedules to be furnished to the controller of military accounts. account branch, and examiner of commissurial accounts with the monthly cash account current

To controller of unitrary accounts, account branch

I —Schedule of remittinces to banks and civil treasuries, Bengal form 153 II -List of cheques di iwn, Bengal form 108A

III -Monthly statement of cash in hand commissard form 11, accounts

IV -Last of chaques cancelled, commissurat form 33, with the cancelled chaques

To examiner of convinsional accounts

I -Schedule of particulars of rescellaneous recent is and recoveries, Bengal form 112 71 -Extract from register of recepts of miscellaneous deposits, Bei gill form 117

III — Schedule of particulars of repayments of missellaneous deposits, Bengal form 151 IV — Copy of schedule of remittances to banks and civil facesuries. Bengal form 153

15 To preprie amoral return of muscellaneous depos t outstandings, Benzil form 139, to be submitted to the extramer of commissa at accounts on 1st April of each year

16 To keep the register of rematance transfer recupts recoved in, and usual from the office To. To keep the register of evid debits recoved and issued grating vil recount current receptly, and propring the cesh debit statements, the debits being first cheel of by the check and

andit scetion 19 To preprie all cheques in payment of fulls which must be scrutinized to see that they have been counteragued by executive officers and introlled by head assistant, and check writer also that the couchers in support are attacked. To furnish tripherte checked recounts to agents and contractors

19 To draw out requisitions on the different trensury officers for remittrace transfer recepts required, and, on recept of the transfer recept, to forward them to the parties concerned, with transmit tang letters taking care that acknowledgments are received in due course and noted in register

20 To distribute carefully to provies concerned the sums recovered on account of supplies to regumental and grainson pinsons, enturing the same in the cash book and pension bill register

21 To t ke timely and necessary action for adjustment of all cash outstandings as shown by the medicant balance sheets to the covery from our agreement in the outsettening as secondly in medicant balance sheets to the covery from our vetors, agents, and subordinates of all fines and retreach ments as recorded in the fine and recovery books

23 To prepare the following periodical papers, www,— I—Quarterly statement of credit and expenditure—to commissary-general

III—Annul asgament estimates—to commissing general
III—Annul badget estimates, with necessary estimates from the other sections
IV—Monthly stytement of security deposits not returned within six months—to deputy commis-

sary general
24 To druft all letters connected with the duties of the section for revision, if necessary, by the

head resistant and see that replies are received

25 To examine all papers connected with the section after being copied in the copying section

26 To make over to the miscellaneous section in its sub divisions papers required for the performance of the duties of the sub division

To grant receipts for scenarty deposits to agents and contractors in counterful form, and to receive them back when securities are refunded. This applies to Government form deposits, as rules 6 and 7 refer to cash deposits only

Fo to ward all loan paper securities to the Bank of Bengal of not acturnable within six months and to civil treasures if returnable within six months, for safe custody, and to withdraw them when nece sary for refund, transfers, &c 29

To draw the interest on loan pap a securities and to pay them to the agents by cheques, crediting them in the register of cash deposits in favor of the parties concerned

80 To pay by cheques all cash securities and earnest deposits received from tenderers 31 To cheel and register account siles

To advise contractors and agents of the receipt of moneys to their credit on account of rations 32

supplied to attrison and regimental prisoners
33 To propule rehef reports of afficers, conjointly with writers of store and stool action

31 To endouse I ills for sale of articles of stores and stock, for which cash is received

II -CHECK AND AUDIT SECTION

To keep a register of bills received, showing when and how each is disposed of to compile monthly a register showing in separ te columns the rates charged by the different agents for the articles purchased and supplied by them, the piece current rates of the month for the articles and the rates allowed in the provious month by the executive commissaired officer for similar purchases. The executive commissariat officer will then himself fill in the lates to be passed to the agents during the current month

3 To prepare for the examiner of commissaulat accounts the monthly list of rates passed by the

executive commissions officer for supplies

I To saidst and pres for pryment all bills (meluding as levey bills) and accounts received in the office seeing that the charges are authorized at I borne out by the proper vouchers, and it not furnished, them To see that all crisuses or the requiring attention, or any noted, doubtful, or charges for numbers.

assessment on common out to occure required to the date of the security of the survey, moreover, in composition of the configuration of the configuration of the configuration of the configuration of the configuration of the head restricted by the configuration of the configuration of the head restricted by the configuration of the configuratio

department, and the a duting clerk is to obtain the initials of the responsible water of that section to every item purchased, showing that it has been credited in stoic or stook return of purchasing

Appendix IV (1307)

- To cheek ruion certaficates of corps, duet rolls of hospitals, and all such youch ers
- To bring to notice errors or great discrepancies in prices current or rates charged by different ģ

agents To frame the replies to be made to objections and retrenchments and regular letters for revi-Q

sion by head assistant before the re charge statement is submitted to the executive officer To prepare extracts from evanuace s list of retrenchments for agents and others 10 To audit and compile the mouthly bread mill and mert charges, scrutinizing them carefully 11

In 3 name and compile the monthly creat from an environment, sectionarily, considerable many in the monthly creat from the many case the content of the best resent on quite time reposit mental or ningellar, in cure to the orders of the executive commissant of disor being obtained.

12. To see that distant and excellents of mill, labeling, and slugghter house accounts, and to prepare called declarer receipts for slaughter called reduced receipts for slaughter called reduced receipts for slaughter called reduced receipts for slaughter called reduced receipts for slaughter called reduced receipts for slaughter called reduced receipts for slaughter called reduced receipts for slaughter called reduced receipts for slaughter called reduced receipts and the served trustianting surgeants's reports of

issue at harmed, and hospital introductional states AB = 1 for each evaluation of the translation AB = 1 for eggets should be sently and and such and specifically by series two officers who shows from their personal known olders and approximately an advantage and experience of their law-right classes and which is a fixed property of the state of the

exceed Bs 50 and require the countersignature of the deputy commissing general

15 To see, in connection with the cash department, to the punctual payment by hide, skin, and

offini contractors of deliveries made to them and of realizations in the bread and ment supply 16 To prepare the monthly statements of particulars of the bread and meat supply farmished to

deputy commissary general

To prepare settlement statements of all carriage and establishments To prepare final settlement statements of command gomashtas (vide circular No 96 of 18th September 1869

19 To prepare reports of command accounts adjusted (commissus) general's circular No. 189

of 1870) 20 To draft all letters and half magin references (for revision if necessary, by the head assist-

ant) connected with the duties of the section and see that replies are received To examine all papers connected vith the section after being copied in the copying section 23

22 To make over to the miscellineous section in its sub divisions such papers as may be required for the performance of the duties of the sub division 23 To prepare and submit mentally to the deputy commissary general a statement of stock of

slaughter cattle and sheep on hand, showing condition &c, and those recommended to be disposed of by sale (erroular No 124 of 1875)

To prepare monthly belis for retions groce ies and firewood supplies for inliving prisoners. To send monthly to deputy commissioners, collecters, cantonment magistrates or station

- staff officers, as the case may be, page current forms, sending the original to the examiner and a copy to the deputy commissary general 26
- To note all changes affecting the expenditure of the department, and to assist in the preparation of budget estimates
 - 27 To check and pass to the executive engineer every month the house rent bills of purveyors 28 To check all eash estimates

20 To preprie estimates for feel &c, of twops and critic moving on command
30 To keep the register of all lebits for breakfulf and slaughter cattle received and respect, granting receipts and preparing debut statements for them SI To propure monthly cortificate of groceries rations supplied to coups, and bills for nations

overdrawn by corps, and for supplies to look hospitals 32 To check estimates of east of articles made up by agency which are not readily programble in

the busar, obtuning rules for materials which are not ordinarily entered in the printed prices current To obstruct the rates from all vermenths nor channels form shed by command gomeshtes and others for supplies purchased by them on the march and to prepare estimates of rates for command purchases, thring care that the quantities and prices of grain, folder &c, purchased on the road are

duly entered in the nearel s 31 To prepare for the deputy commissiony general monthly list of rates passed by executave

commissing it officers for chief articles of supply 80 To prepare for usue (by cash section) to agents and contractors of sudder stations triplicate

comes of their dusters after filling in them the proticulars of check

56 To cheel acquittance rolls of theled us 37

To prepute review continents and illumamahs To check bulf yearly estimates of stock naticles 38

Succent Difres

To cheek steamer bills, bills for supplies for Port Blan for Native troops and for miscellaneous supplies for up country stations, also bills for supplies to medical depot, and bills for transport of medical stores Presidency store and slapping executive office other than by rule ny, as also of magazine and clothing

stores sent from Calcuita

To prepare pance statement of supplies sent to Port Blan To cheel bills and prepare accounts appertuning to Cawaporo executave office the mill house.

To preprie the weel ly statements of flour despriched

To register all invoices of flour largs, &c despatched and received To mal e monthly debits of flour despatched

To prepare quarterly account current of large with the several executives

To make out rule ay credit notes for despatch of flom To keep in account of the quantity of wheat in store issued to the nuller and presed the nulls, and of duly produce of flour, bran, &c.

(1308) To check the bills and prepare the accounts and other documents of the res houses To check, for submission to deputy commissary general, weekly report Lucknow and Morre exec tive effects of see manufactured and assued

To issue monthly see prives to regiments and purchasers To check monthly see house store and stock recounts

To cheel recounts of agents and continetors for supplies to see house

To prepare, for examiner of commissional accounts, annual account of see house, showing secents

A B — As request rathers V list A is odd and a self-request an electrical as follows as we tooks, of an interpresent No. 1000 stated, that hip the fore voiced to deplot as the content per self-A is come as a proced of a B of the deplot and A is the content of A is desirable and A is the content of A is desirable and A is the content of A is desirable and expected in that the odd and are a complete content of a solid of them. If a solid of the A is desirable and A is the content of A is the content of A is the content of A is the content of A is the content of A is the content of A is the content of A is the content of A is the content of A is the content of A is the content of A is the content of A is the content of A is the content of A is the content of A is the content of A is the content of A is the content of A is a content of A is a content of A is a content of A in the content of A is a content of A in the content of A in the content of A is a content of A in the content of A in the content of A is a content of A in the content of A in the content of A is a content of A in the content of A in the content of A is a content of A in the content of A in the content of A is a content of A in the content of A in the content of A is a content of A in the content of A in the content of A is a content of A in the content of A in the content of A is a content of A in the content of A in the content of A is a content of A in the content of A in the content of A is a content of A in the content of A in the content of A is a content of A in the content of A in the content of A is a content of A in the content of A in the content of A is a content of A in the content of A in the content of A is a content of A in the content of A in the content of A is a content of A in the content of A in the content of A is a content of A in the content of A in the

III -Story and Stock Section

To audit monthly store returns sendered by gomashtas (and purveyors of droing articles) within the executive range

2 To note that the certificate of the European subordinate in charge of the godown is attached to the gomashta's store return, showing that the balances in the agent's return agree with the godown books and actual balances in store

To compile from the store returns of gomashias, and purecy or's store ledgers

To prepare from the office ledges the monthly stone setum for the examiner of commissaint recounts taking care that all quantities charged off in this seture me bonne out by proper and complete vouchers

5 To compile the monthly store retain furnished to the commissing general and deputy com missary general

6 To prepare and submit to the examiner of commissa intracounts with the monthly store

and expenditure

- action rendered at Apad and October of each year, a distribution statement of balances in presented To audit the monthly stock returns of gomeshirs and compile an annual return of dead stock
- articles to be submitted to the ex miner of commissainst accounts in April of each year. All you thers furnished in support to be safely I opt until funished to the examiner with the annual return

S To compile the annual dead stock return for inspection of the deputy commissary-general when on tour, all vouchers being attached

9 To examine monthly the godon a account-books for inspection and signature of executive commissionat officer, all discrepancies between agent's accounts and undied between the executive office being adjusted by surphis being credited or agent required to account for deficiencies 10 To rudit the monthly recounts of clothing, bedding and miscellaneous articles, cooling

utencils and duet and table requisites tunnished by hospital purveyors, and the godown gomashta's reserve stool 100mm of similar articles

To compile from the above a menthly alphabetical action of hospital equipments for submis

sion to the examiner of commiss must accounts 12 To grant radway credit notes and bullock from requisitions for conveyance of establish-

ments and stores

13 In auditing the several accounts above referred to, to see that each item of receipt and issue is on ported by the proper souchers, which are to be numbered, calling for the same when wanting, and resum, the agent, when necessary in procurage the versions required to see that all cassures and attentions are installed, to large to the notice of the head sussitivity any remarks in the routhers requiring attention, or any nored domitful or dragges for nareafforced purposes or supplies, in view to the orders of the excessive commissions; of the codes of the excessive commissions of the codes of the excessive commissions of the orders of the excessive commissions. against agents for any deheteneses or overcharges, of which (nuless satisfactionly accounted for) the value is to be recovered

14 To leep registers of railway receipts for stores sent to other executaves, and of acknow-

ledgments for the sume, as also the register to invoices of stores despatched to other stations

15 To examine, before submission to the examiner of commissariat accounts, the half youly returns of articles of commissarrat supply in possession of corps which are furnished by commanding officers

76 To prepare the half yearly return of medicines and instruments submitted to the examiner of medical accounts 17 To fi une replies to the examiner's objections, retrenchments, and re audit notalications for

revision if necessary, by the head assistant To prepare extracts from examiners list of retrenchments, or retrenchment letters for 15

agents and others 19 To check monthly recounts of gomeshtus and purveyers of such stock as as not recounted for in the united stock returns for deputy commissary general or evanine of commissairt accounts (see circulu No 72, dated 26th April 1873)

20 To keep the register of store and stool debits received and issued

21 To grant receipts in prescribed form for all store and stool debits received, after carefully comparing the cumtities debited, with concluse furnished in support thereof, or the receipted incomes as the case may be, and noting that the articles have been ere litted

22 To propule and issue all stone and stool delats against other executives, taking care that they are fully borne out by the vouchers and invoices quoted in support

23 To keep the registers of (1) invo ces and (2) indents received 24 To check with great over, before passing for comphance, the monthly indents of commanding and moderal officers of corps for burned and hospital supplies, muscall neous and potty supplies, turn and malt laguer, and also other missell means and periodical indexis by corps and igents, &co

25 To draw out all orders for wome of store and stock writeles from godown, and recent orders to take similar articles into godowns 98

To check the monthly empty hogshead accounts with canteens To preprint he monthly bulls for rum and male hauer supplied to corps

To audit gomashtus' monthly sale statements of rum, mult honor, sugu, ten &c , issued on 98 rayment to writant and non commissioned efficers and soldiers' fundles, and after audit to hand them over to the easil section for the recoveries to be excluded in the office accounts

29 To andit the monthly inction account siles of useless and surplus stock articles, and after aucht to hand the account sales over to the each section for the amounts to be credited in the office

accounts and recount siles forwarded to the examiner with each account current.

30 To audit the half yearly inspection papers inspection and committee reports, account sales, and estimates for repairs, after which loss statements and half marginal references will be made out. and all the papers submitted in one complete batch to the deputy commissary general To preprie the monthly statement showing loss on 10m and malt liquor assed to Furopean

troops, for submission to the deputy commissing general, also other miscellaneous loss statements when any losses on other articles occur

Novo --When the loss a 5 percent, per annum til e statement may be man the copy and when there til at precentage in deplicated. All weath as in a spect of the loss aftened as the did be complete and explanation concerning the loss affected in the loss admissions the partners are of the three to be entilly include. 32 To compile the unusal statement showing receipt and rejections of malt liquor, furnished to

the deput; commissury general

33 To prej are the statement showing loss in ginging and filling up turn vats and casks on 1st

April, furnished to the deputy commissary general
4. To preprie vienu distafement abouting probable quantity of ale and parter that will be required by cops in the following year furnished to the deputy commission general

35 To preprie the numual statements of requirements of inscellaneous stores from Larope, and

formsh information required by the commissing general for the preparation of such underts as are

drawn up by his office.

36 To see that complements of stores are always kept up and to prepare indents on other executives or departments for store and stock articles to complete deficiencies of authorized stock, or for other purposes

37 To draft all letters and half margan references for revision, if necessary, by the head assist-

aut connected with the duties of the sort on and see that replies no received

38 To examine all papers connected with the section after being copied in the copying section 39 To mike over to the miscellaneous section in its sub divisions such papers is may be required for the performance of the dataes of the sub division

To prop a for deputy commissary general quarterly report of empty cashs supplied to 46 Messrs Carew & Co

41 To propure for deputy commissing general, on 24th March, annual statement of extra blankets issued to troops 42

To keep registers of assue of rum to pensioners, &c 48

To preprie bill for bedding &c , issued on pryment to troops To issue notice of intended sales by anction 44 To prepare by monthly return of barrack blowleds rendered to the deputy commissing general 40

46 To prepare last bodding certificate

47 To register all store and stock recents received

48 To asset on the preparation of annual budget estimates 49 To check stationery accounts

51

1-To prepare-

50 To prepare estimate and indent for Europe medicines

To prepare annual report of consumption of stores and wanes in hospital

Special distres To check milents for provisions for Native traces and to prepare bills for recovery of cost as deep and Dageding essentive effices To keep a register of stores received from England, Pres dency and Da yealing executive offices Presidency store and shapping executive office

endant; store and suppose eventua edice and to report their united to deputy commissar, gener I To endorse on packing accounts and invoices of stores the condition in which they are necessed to consider the great magnetic many and to make in their may receive the to great certificates to agents of essels, and to note in their may receivery that should be made for change or less should there be any, and to give infirmation thereof to the intrins department to analysis to recover the same from the theight bill of vessels. To propose a monthly chapping account of stores and stock imported and exported for the examiner

IV -Miscrilaneous Section

Sub divines 7 - Periodicels

Weel!

1 —Suntany report, to the brigade major or conforment magistrate

No of the

Memorandum of sums paid for service telegrams, for countersignature of deputy commissary

general 2 Statement of prices current for stations and outposts to deputy commissary general, and examine of commissional area into

3 Critile returns, to commissary general, deputy commissary general, and examiner of com missariat teccunis 1. Return of moveable column cutile and establishments, to commusary general, deputy

commissary general, and examiner of commissarint occounts
Roll of commissaced, wan int and non-commissaced efficies, to deputy commissary general and cummer pry department

12

general

general

(1310)

6 Muster roll of commissioned, warrant, and non-commissioned officers, and families of noncommissioned officers, to paymaster and pay examiner

Pay balls for off ee establishment, to pay master

Pay bills for warrant and non-commissioned officers, to pay master

Contangent bill, to prymaster 9

Pay bill of commissioned officers, to paymaster Abstract of bill and contangent bill, to paymaster 10 11

Statement of moverble column establishments employed in pulling punkahs and tattie duties to pay examiner Committee report on groceiles Muster-roll of cuttle

Return of births and deaths amongst establishments residing in commissional lines in 15 contonments, to magistrate and garnson quartermaster

Memorandum of stege train critic detached for employment, to executive commissant 16 officer, Allahabad or Perozepore

Bill for subsistence allowance to children of non commissioned officers, to paymaster 17 Contribute that the station butcher has been effective, to the commanding officer of the 18 corps to which attached

House cost bills of non commissioned officers, to the executive engineer

19 Report of rejections of niticles of rations, to the commiss ry general and deput; com-20 missary general

11 Report of fines, to deputy commissary general

Quarterly Statement of services of executive commissions officer, to deputy commission general

2 Report of accuracy of scales and weights in use, to deputy commissary general S Critic returns for mulitary authorities, to station at all officer

4 Statement of sums pad on account of cetror and choonges tax, to deputy commissarygeneral 5 Roll of subordinates drawing more than Rs 10 per month discharged, to deputy commissary.

Half yearly

Statement showing deduction of fines and forfeitures from pre-abstracts, to depute com-

missary general Q. Roll showing character and qualifications of warrant and non-commissioned officers, to

deputy commissary general Report on the condition of mules and gear, to deputy commissing general

Roll of clerks recommended as qualified for the post of head assistant, to deputy com 4 miseny general

Annually

Statement of leave granted to uncovenanted servants drawing more than Rs 10 per month, to deputy commissary general

Return of establishments drawing not less than Rs 10 per month, to deputy commissarygeneral.

3 Detailed statement of all permanent establishments, showing the salary of each individual, to deputy commissary general

Return of pensioners drawing compensation pension of more than Rs 10 per month, to deputy commissary general (controller of military accounts' encular No. 61 of 1875)

5 Roll of non commissioned officers and practice withdrawn from regimental duty for employ-

ment in the commissariat department to deputy commissary general

6 Register of sanctioned establishments, to examine, pay department 7 Statement showing number of bullocks cast by annual committee, to deputy commissary-

8 Report of bullocks required for soldiers' guidens, &c , to commissary general and deputy commissary general

Descriptive roll of elephants, to deputy commissing-general 70 Statement of horned cattle and sheep slaughtered, to deputy commissary-general

Report of presiges required for a wrint others, to deputy commissary general

Returns of arms and account ments, to deputy commissing general 19 Indent for stationers, to the superintendent Government stationery 13

Indent for blank forms, to deputy commissing general 14

Statement of buildings to deputy commissiry general 15

NB-The order of ungency in which it is requested the buildings may be creefed is to be carefully noted in the stitement.

Retain of uncoveranted servants above 65 years of age, to deputy commissivy general 16

Clotling indents and clothing compensation bills, to the superintendent and agent for 17 arms clothing rad examines of clothing accounts

18 Roll of non combatrats, to be lept in office and report made to deputy commissivy general

Return of house-blankets, to deputy commissing general Committee report on vegetables, to deputy commissing general Memorindum of vegetables, to brigade-major 19 20

21 22 Report on resources, to deputy commissary-general

28 Indent for bedding for non commissioned officers

24 Alphabetical roll of non commissioned officers, &c , to deputy commissary general Confidential report of warrant and non-commissioned officers and office establishment, to deputy commissary general

(1311) Appendix IV

20 Acknowledgment of permunent advance for divinional psymmetic (commissary-general's arealist No 7 of 1871)

II -- To prepare-All transfer papers of office establishments warrant and non commissioned officers

Casualty descriptive roll of elepi auts and mules, and report on elephants' tusks 0.

Medal tolls of non commessated officers To keep recount of receipts and issues of stationers, forms, &c

To comply with indents for stationer, and forms after due cheek

To make out muster rolls of establishments. To keep departmental character and defaulten books of warrant and non-commissioned officers.

To check cattle returns of outposts

To mform commanding officers annually that good potatoes are not procurable in the plans between 1-th June and 15th September, and if they talle them, they must be prepared to recept

such qualities as are proc nable 10 To draft all letters connected with the duties of the sub division, for revision, if necessary,

by the head as istant and see that replies me received 11 To evunine all papers connected with the sub-division after being copied in the copying sub division

12 To make over to the copying sub division such papers as are required to be copied after compilation

To prepare transfer descriptive roll of elephants when transferred

To keep register of elephants

To prepare reports of epidemic among cattle (cattle form 28) 16 No ration certificate (non commissioned officers)

18 Cost statement

19 Certafiente of extra coolies

To keep daily report book of movemble column establishments 20

Acquitiance roll of office establishments 2.7

22 Present and proposed state of office establishments 23 Report of non commissioned officers and privates-probationers in the department

Sub division 2 - Contracts

To prepare-

Advertisements for tenders Comparative statements 9

Contract deeds and then schedules of rates

Last of contracts concluded To issue tender forms to tenderer, crrefully filling up the blanks, additional clauses &c To notify in due form to tenderer acceptance of them tenders

To forward the accepted tenders to the stamp office for impressment stump, and according the fee from the contractor

To deaft all letters connected with the duties of the sub division, for revision, if necessary, by the head assistant and see that toplics are received

9 To examine ill papers connected with the sub-division after being copied in the copying sub-division 10

To make over to the copying sub-division such papers as require to be copied after compilation

11 To see carefully, on recent of tenders that they no properly aggred, that rates are entered both in figures and words, and that all erasines are duly attested. To send copies of contract deeds to officers commanding corps, and also to officers in charge

of outposts 18 To enquire from commanding officers, after recent of tender if they will supply aerated waters and transing

14 To call for estimates of wants from commanding and medical officers

Sub division 3 - Equipment of troops and commands

1 To preprie indents for carriage and establishments and equipment, reports to be passed by the head assistant

To prepare letters of instructions to commanding officers agents, &c To prepare preses for toll bars, incomes of slaughter entitle and sheep, &c

To draft all letters connected with the duties of the sub-draision, for revision, if necessary, by the head assistant, and see that replies are received

To examine all papers connected with the sub-division, after being copied in the copying sub du ision 6 To make over to the copying sub-division such papers as require to be copied after compilation

To prepare a statement of carriage and establishment supplied for movement of troops

Sub divis on 4 - Miscella icous

I To despatch all letters, to , and to keep the recount of postage labels recoved and expended. and to procure labels as requied

To loop the index of commercity general and deputy commissing general's circulars and Government general or less and Government orders affecting the commissional department, and correct Bengal urmy regulations

(1312)

- To have charge of the office records, and see that the duftry keeps the files. &c . in order
- To prepare requisitions for commissional minor worls

Set division 5 - Copying

I To copy all letters and papers of the office generally when all that is required is a fair copy for either desputel or record

To keep all letter books

Major General Nap er Campbell The number of clerks and writers-Officat g Inspector Gereral of Ordner ce a d Manazana, Bergal

(a) at head-quarters (ordnance office) is 28, of whom 6 are on duty at Simila, and 22 are employed at Cale itta

6) elsewhere (that is in userials and frictories) 112

(i) elsewhere (tank is in discussed and substitute of the office in the order of the order of the order of the order of the order of the order of the office, distributes the work, and see that it is carried out according to the rottine presented, examines and initials all fur copies of correspondence, and assists in all matters under reference

Cleris

	~				
1st class	2nd class	3rd class	ith olass	5th class	Remarks
1		1	2	62	Are employed at State under the inspector general of ordinance. All the important word, such as propriating drafts, gring references and general resistance, loogue recents or emming letters and formation, responsing draft general orders &c, &c, are performed by the lat and 3rd clus electric, once of the 1th cluss clords notes as despitcher and the other as suutilor of indentity, and the two fills.
	1	At Ca	iles Ha	2	Chase ones are employed as coparets Deal with all departmental demands in person el, at three and stones of country supply, prepare budget estimates, check estimates for country supply, &e, &e
	ŀ		1	S	Are cm) loyed as record and duary keepers
		1		3 1	Are employed in propriation of Licrope indents, distribution of stores arriving from England, &c &c
	1	1		2	Are employed in correspondence branch
***	1		1	1 4	Desprécher Are employed as auditors, drary l'espers, copyist, record keeper, and despatcher in indent branch
	1			1	Draftsman

The duties of clerks and warters employed elsewhere (that is in userals, depots, and factories) are to keep ledgens durars of recepts and reuses, returns of stores made and repaired, expenditune of materials and liber, check indents proprie estimates believe returns stoel reports muster rolls, pay bills, and to carry on all work connected with correspondence in respect of supply and demand

Surgeon General I H.Ker Innet Brush Med cal Dept thent and Principal Medical Officer, B tish Forces in India

Pifteen clorks in all are borne on the establishment, five of whom were synchroned specially for the statistical branch. The entire office is located at head-quarters, Simla

The fol

		al of the estab				
	clerl,				Rs	300 to 400
2nd	do	do			,,	200 to 300
3rd	do	do			12	150 to 200
4th	do	do	•			150 to 200
5th	do	do			"	100 to 150
6th	do	de			"	100 to 1a0
7th	do	do		•	,,,	75 to 100
8th	do	do			"	75 to 100
9th	do	do			,,,	
10th	do	do				75 to 100
11th	do	do			,,,	50 to 75
					11	50 to 75
12th	do	do			22	50 to 75
13th	do	do			12	50 to 75
14th	do	do				35 to 60
15th	do	do			99	8a to 50

[Appendix IV [1313]

The five elecks sanctioned for the statistical branch, included in the above are the following -Lelerk at Rs 156 to 200

2 clerl s at 70 to 100 2 50 to 75 23 27 5 clerks

Brief states ent of dataes

Head clerk -- Supervision and management of general branch, drafting, prices, summaries of confidential sanitary and inspection reports, miscellaneous 2nd clerk "-Supervision and management of statistical branch, correspondence relating to

returns and reports and supplies of forms, inseedlencess

3rd etc.— Weiterd officer's reter, applied our postings, and correspondence connected therewith, index or regarder of letters received and charge of other recents

s, don't or register or receiver services us compare or occurs or control of the first or register of issues, quarterly sheets of carealyes, my bills general work 56k dor's —Dury of duly dil, counformating references, despitch, general 66k dor's —Cholern returns monthly state of troops for adjutant general, modical history sheets and ensualty reports, proofs, &c

7th clerk *- General annual statistical and sanctory returns for War Office, also monthly general returns for War Office.

8th clerk - Copying proceedings of medical bourds, assists in the 1000rds 9th stert *- General mouthly returns of such for the War Office

10th cleri +-Weel ly sick returns for Commander in Chief

11th eterl —Copying assists in the recerts 12th eterl *—General monthly retains of such for Wai Office, also the annual returns 13th cler! "-Monthly returns of women and children, and general assistance in other returns as

required 14th cleri *—Copyrat 16th clark *—Supply and issue of blank forms, &c , copying (e) I head assistant Surgeon General J. F. Bestson Indian Medical Service Bengal 1st grade 1 assistant 2nd ,, 3rd l resistant , 1 record leaner 4th ,, L assistant ditto 7th ** 1 special clerk 4th -11 l assistant . 5th ,, 5th 1 mdexea 2) 1 statestacal eleck 5th 7th l assistant elerk 12 5th 1 accountant Gth 1 draust 11 6th 1 despatcher 7th 3 copyrists

(b) None Ti cu respective duties are irrefly as follows

The head assistant is the channel of communication, and is directly responsible for the duly

Mr N W Essensfi Re 300- orders, and for super atending the work of the whole office, subject to 400 stinding orders. He is especially concerned with the concrete present ment of cases before submitting them for orders, having to see that regulations are not overlooked,

precedents forgotten, or orders desobesed. He should personally see that every file is complete that every setuen is recurate, that the statistics are reliable, and the records maintained intact. He also draft's most of the current letters and orders

The second assist int has very important special duties. His duties are principally directed to the hospital assistant class, and have lately been most laborous, especially Balu Rundoss Cloudry, Rethe arrears of their pay and the confused accounts which materally 200-300

200-200 seem to follow their pay all over finds, also the examination for siduations on the service,—the promotions and qualitations of this close. And he drafts all letter connected with these and his other duties the proportion to make the manual height of this department including the grants of each medical circle and garrison and station hospitals together with the budget estimates to grants of course medical depois of the various medical depois "for local lurrel ases" involving the extreet apportuning of large sums of money which can only be expended on the sanction of the surgeon general, he also prepares

all pay bills and indents

The accountant is practically his s do in fallfilling these duties, and also in proxing the defuls.

connected with service questions of so many hospital and stants who in Rabu Omr toldil Blustiacharjer Ra 75—100 distant and lapsed periods secur to the memory of provinced accountants as debited with unrecovere I bilances of questionable illowinces

Examines all gareties, general orders, and caroline nature for girll which effect the medical department has the union charge of the quantum shiets of circulars, and complete his the culture charge of the quantum shiets in nature emission the printed proofs, prepares the departmental from their manuscernate to the printed proofs, prepares the departmental Arestant Mr C G Lesant Rs 150-200 share of the official army list, and records the various service changes; assists in the abstracts of all the subordinate medical departmental examinations, or .

admi sion of hospital apprentices, oth April-Loth October ,

examinations of hospital apprentices, let May-let November, examinations of narrant officers on the lath January, let May, 15th July 1st November,

(1314)

and tabulates the results for record, examines the fan copies of all the correspondence, and unitals them belove they pres to the surgeon general or secretary for his signature, and he allo drafts many of the more serious letters, or takes pieces of any lengthy correspondence The record I per and his resistant are sufficiently indicated by their titles. The records of this office, bound and unbound,

Mr A O Mendaes I's 100-150 Rabu Nalmoney Roy Rs 30-50

Mr T Sm.th, Rs 75—160 Mr J Mendes Rs 00—75 Babu Pearymol'un B nerjec Rs 50

Special clerk Babu A B nerges Ra -ln0 100 Assistant Denouath Ghose Rs 76-

100

be reduced Of these men, it is enough to say that not only me they fully employed, but I understan I we have Copyrists { Rs 30 { Khettermol an Ghoso to { Kally co i il Moskerjes Rs co { Juday Anshus

extend through a period of nearly one hundred years Similally, the indexer, draist, and despatcher are cleals whose duties are shown by then a mee. Since the 1st April it ere have been received in this office 4,526 communications, and there have

been desputel ed 1 921 These men were especially retuned to complete the vertical statement of service of every lospital state deer Baba A B series Rs issistant. The number required will eventually fall very little

short of 1,000 and they extend over periods varying from 38 to 2 years. There remain ab at 100, and at they are completed on an are uge of a bout 10 a week, it is confidently hoped that it will be got through by the close of the current furmeral year, and this portion of the establishment can then

had for some time two youths apprentices, who write a good hand and are learning office work and wating for a vierney, and that these youths also are fully employed in addition Of the work required of these two members Lostly, me the statistical clerk and his assistant

of the office I need only remark that they receive and despatch the Mr B Marphy Rs 75—100 Mr S. Murphy Rs 30—50 weel ly, monthly, and annual returns of sichness, invaliding, and mortal Mr 8. Murphy Bs 30-90 sty of the Native erray of Bengal, which amount to 109 amount natures m deplicate 1,465 monthly actures, and nearly 1,2000 weekly returns per various, and that these have not only to be extrained and checked, but length enter after concetton, and have to be ab inter no unit of the common that the contract of the contract blunders of hospital resistants who are temporarily in medical charge of detachments. And ultimately, when every document has been corrected and passed on to the statistical officer, Dr. Bryden, a comwhet every document has been concepted and passed on to the statistical office, Dr. 19,10cn, a com-plete and icelly distance at of tritio have to be prepared for the annual report of the Nature anny for the information of the Secretary of Stric. It will probably be ad-off with this day is not muchly relegated to the statistical office, proper, by which it may be replaced—for two reasons. These because Dr. Bryden, being delicated from the proper cloud, the head of the Index medical department, would note to able on would be have the administrative provise in severe the purchast assists asson and the prompt connection of those thousands of returns from all over India, and the statistics avoid multipliky full into controls do conference, and exceedill, because he, are the existing officer, neuronize detected from the control of the suggeon-general the returns necessity to crubb this department to negara its nowal report of the Natice army vould not be forthcoming or would. this deputment to prepare its inneed report of the Nature many would not be forthcoming or would be objected to an i changes suggested until all discipline was at an end. If the Government really desire to combine efficiency and economy, I venture to observe that the proper direction as to relegate the statistical officer to the authority of the sungeon general, and combine his office with the present

D: J M Cennigham Some tary Commissioner with the Government of India

(a) General branch-1 head elerly 2 resistant elerke

> Statutical branch-1 head eleak 5 nesistrat clerks

(3) None

The two assistants of the general branch are metaly copyris. The head clerk manages the office, and goes over all the work cheeks the figures and other statements made in office letters and note.

The statistical branch is entirely taken up with statistical work.

Colonel T B Harmson Con-troller of Malstary Accounts, Bergel

(a) OFFICE OF CONTROLLER OF MILITARY ACCOUNTS l head assistant 3 lst class resistants

4 2nd ditto 5 3rd ditto 5 4th ditto

9 5th ditto 27

Estimate and marine section

The herd assistant and four clerks are engaged in this sub-division of the office. The preparation of the military and marine budget and cash estimates, and all correspondence connected therewith, of the annual account statements of reports on establishments and the maintenance of the establish ment books, of matters relating to forms and of the Indian mattine, are entuated to this sub-division

Pay section One 1st class assistant and two cleaks entry on the worl of this section, which, as its name denotes, deals with ill questions regarding pay and allowances and travelling charges

MISCELLANEOUS SECTION

Consists of one 1st and two 2nd class clerks who deal with all questions relating to the commissurat, stud, clothing ordinance, and medical departments that are not connected with the estimates or pay

PENSION SECTION

Consists of two clerks, who deal with all questions relating to pensions

RECORDING AND RECISTERING SPCTION

Consists of five clerks whose duties pertain to the recording, registering and indexing, of all documents, &c

Despurence One elerk COPYING SECTION

S x clerks One 1st class clerk on deputation to Umballa One 2nd class clerk absent on medical leave

(b) None (a) OFFICE OF CONTROLLER OF MILITARY ACCOUNTS, ACCOUNTS BRANCH

Military branch I prancipal clerk

3 1st class clerks 3 2nd ditto 6 drd ditto S 4th ditto

16 5th ditto 5 copyrsts 6 computers

48 _

4

Ma ine branch 1 2nd class clerk 1 4th ditto 1 5fh ditto 1 copyrst

One principal clerk and book keeper supervises the clerical business of the office, and has direct control over the book Leeping sub division

ACCOUNT CURRENT SUB DIVISION

Two cleris -- Have the general charge of all the accounts and deal with the correspondence that may arise in connection there with

HOME SUB DIVISION

Nue clerks-Deal with all the transactions adjustable with Her Majesty's Imperial and Indian Governments in London, and prepare and record the various abstracts and returns relating thereto

INTER DEPARTMENTAL SUB DIVISION

Tirtom cleris -- Exmance and adjust all trusactions between the military department of this presidency on I the several erral governments provinces and administrations, the public works department India, and the unlitary account departments of Madras and Bombay

BOOK REEPING SUB DIVISION Seven cleris -Compile the military books and accounts submitted to Government through the accountant general

REGISTERING SUB DIVISION

77 res clerks - Register and index letters rece ved

COPYING SUB-DIVISION

Four clerks —I've family remutance rolls Seven clerks —General element work of the office

O c clerk -- Despatcher O se clerk -- Record Leeper

(d) None

(a) OFFICE OF EXAMINER OF COMMISSARIAN ACCOUNTS

1 supernatendent 51 clerks So computers ō copyists

02

O is a speriale ident - Supervises the working of the entire office Two assistants - Conduct the general correspondence of the office Four assista ts - Supervise the cash, store, and stock audit

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Appendix IV ]
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in this sub division

(1316)

CASH AUDIT BRANCH

Forty eight assistants - Audit executive officers' monthly disbursements in the twenty four commissariat ranges STOR

Eleves assistants -Audit executive officers' monthly store and stock returns, returns of purveyors' stores, &c RAII WAY AND BULLOCK TRAIN BRANCH

Four assistants -Deal with transport charges

CASH ACCOUNT CURRENT Two assistants -Do the work of this section

STUD SECTION

Two assistants -Do the work of this section

COMPILATION BRANCH Seven assistants COLVING BRANCH

Seven assistants RECORD SECTION Pou assistants

(b) Node

(a) Office of Pay Examiner Military Account Department

l superintendent 4 1st class assistants

4 2nd ditto 8 3rd d tto 15 4th ditto

28 5th ditto 19 copyists

15 computers 92

One superintendent -Superintends generally the worl of the office

Three assistants -Audit the pay lists of office establishments and pay bills of officers and others who are neither in regimental nor striff employ

STAFF SUB DIVISION

Siz ussistants -All staff bills and muster rolls are audited and cheel ed, and all correspondence relating thereto is carried on in this sub division

BRITISH TROOP SUB DIVISION

Twenty three assistants -The pay lists and accounts of British troops, and all correspondence connected therewith are undited and carried on in this sub division SAVINGS BANK SLCTION

One senstant -Audits the regimental savings bank accounts, I cope the ledgers, and conducts the

correspondence connected therewith NATIVE TROOP SUB DIVISION Eight assistants - The pry lists of regiments of Nitive caralry, artillery and infantry are radited

COMPILATION SUB DIVISION Therteen assistants - The classification and compilation of all the charges passed in the office devolve on this sub division

LEDGER SUB-DIVISION

Four assistants —The pay of every officer and warrant officer is posted into the books by this subdivision

BILLS AND PENSION SUB DIVISION

Bight assistants - The audit of all pensions, payments, and the maintenance of the pension registers are entrusted to this sub division

COPYING SUB DIVISION Consists of twenty four copyists

RECORD SUB DIVISION One are stant -In principal charge of all the records

(b) None

(a) ORDNANCE EXAMINER'S OFFICE

The number of clerks and writers is is follows -

1 superintendent l 1st class cleri

1 2nd ditto 2 3rd class clerks

6 4th ditto 17 5th ditto

5 copyists 13 computers

16

Director

One anger mendent —Supervises the framing of reports, statement- to, and the clerical business of the office, occasionally checks the accounts, and access with his opinion doubtful points submitted by auditors

ORDVANCE AUDIT SECTION

One clerk —Superintends the audit of factory, are and and depôt monthly journals, and the unual factory accounts compiles the annual accounts of the weall are ammunition factory at Dum Dum, and carries on correspondence Two cleris -Audit factory, assemil, and depot monthly journals and material reports, dispose of

Europe myonees and prepare statements of stores to One eler and two computers -Assist in auditing factory, arsenal, and depôt monthly journals and

materral reports ACCOUNT SECTION

One clerk - Keeps up the abstract ledgers of sto es, prepares statistical statements as required and montbly returns compiles statements of securities deposited by contractors, and audits schedule of inter departmental payments

One clera - Prepares all valuation stylements of debats and credits, Leeps up a register of Europe stores, and draws up various statements and rejorts

One c'erl -Audits each recoveres of stores supplied to corps individuals, and foreign States, forwards treasury receipts to office of controller of multary accounts, and dispuses of all pucking arcounts

Three clerks, one copyrst, and one computer - Calculate and rate entries of receipts and issues in daybooks of factories, arsenals, and deputs

One clerk and one co speter .-- Prepare and shock valuation statements of stores supplied on payment or lost or damaged and draft letters to connection therewith One clerk —Audits bells for extra establishment and contangent charges for factories, aromals, and

depôts and hills for examp compage &c., and drafts letters in connection therewith

One clerk — Prepares valuation statement of stores taken by regiments leaving this presidency, and

other returns and statements O to computer - Keeps undex of bills received and audited, and assues vouchers for payment

RESCHENTAL AUDIT SECTION

One clerk -- Supernatends the audit of half yearly equipment ledgers of ordnance and military etores (keeps up register of returns received and audited and carries on all the correspondence of this section

Four cler's one cop; at and one computer -Then duties are alike, and consist in auditing array and miscellineous half yearly equipment ledgers

Oue computer —Compares invoices of stores received by corps and letteries with monthly journals of arsenals and dentits

O se computer -- Audits returns of ordnance stores in charge of military departmental officers retarns of camp equipage, and accounts of rest camps

GENERAL STOLK STATION

Three clerks and two computers - Audit all store ledgers of factories, arsenals, and denôte

CURRENT SECTION

One cler? - Indexe, all recents and asues, and keens up a stationery ledger Three elects, too conjusts, and two co muters - Fair copy letters and other documents

One copyret - Despatches papers
Two cleris and one conqueter - In charge of records

(i) None

(a) OFFICE OF EXAMINER OF CLOTHING ACCOUNTS

1 2nd class assistant

2 3rd do resistants 1 4th do besistant

5 5th do assistants

6 copyrsts

1 computer

16

O to assists it -- Supervises the general working of the entire office

One awade if - Deals with questions relating to a necessaries branch and a portion of the generrd branch relating to accounts

Our sanstant - Propages annual account current of stock and coch, &c

One associant -Attends to questions relating to the stock expenditure of clothing made up in the Five constants — Keep the stock ledger and various registers, and assist the other elerks generally.

O to assistant -Record Leeper

Era copyrete

(b) None

OFFICE OF EXAMINET OF MEDICAL ACCOUNTS

One a perindende it - Conducts correspondence frames reports, and exercises general supervision over the establishment.

One clerk -Supervises the work of the medical store vectors, and conducts correspondence connected therewith

(1318)

One class - Supervises the work of the commissariat supply section, and conducts correspondence connected therewith One clork -Compiles commission to recounts for charges incurred by the commission to the

mode of department, and prepares budget estimates and other statements

One cloth—Properes the rate list of stores, the quarterly each recounts and compilations, also the

annual stock recounts, and conducts correspondence connected therewith

One cler! — Prices indents and stores issued from mulical depôts and annual stock accounts

One cler! — Compiles commission it accounts for charges incurred by the committee for the medical

department and assists in the preparation of budget estimates and statements One clark - Cheel's transfer lists and half-yearly returns, conducts correspondence connected there-

with, supplies references and despatches letters One cles ! -- Checks duct seturns, and property returns of stamulants and other statements

One clerk -Checks and prices articles returned into store, and prepares loss statements and rate lists of stores

One clerk -- Keeps register of indents and invoices of stores issued, stationery accounts, and prepares miscell meous statements One clot! -Prepares data for annual indent, rate list of stores, and prices indents and stores issued

O to clerk - Keeps ledger of recenpts and assues of stores of the Allahabad depôt and audits returns connected therewith

Two cloths -Price indents and stores issued from medical depots and annual stock accounts One chal -Chaths half yearly returns of surgical instruments, and keeps postage accounts and

One clerk -- Prices in lents and stores issued from modical depôts, and copies letters

One clerk —Compiles commissaurit recounts, and resists in prepring budget estimates
One clerk —Keeps ledger of receipts and asses of stores of the Alexan Meer deput, and audits

returns connected therewith One clerk - Keeps duary of letters received, copies letters, and prepares statements

Total 20 clerks

(%) None

(a) OFFICE OF EXAMINER OF TUND ACCOUNTS One cleri - Conducts correspondence, and superintends the working of the office under the orders of the examiner

One clerk -Drafts letters, and prepries periodical accounts

One clerk -Drafts letters, prepares home returns, indexes, and takes notes of promotion, &c. One elect. - Prepares statements of subscriptions, calculates interest, and makes out accounts under article 8

One elerk -Posts receipts on account of subscription and family contribution to the orphan fund, keeps general and statistical register of children, and prepares quarterly returns of them for transmission to the India Office

One clerk - Makes out bills, budget estimates of Kidderpore house and lower school, audits payments to outwards, keeps accounts of both schools, and analyzes certified lists

Bleven eler/s -Keep the ledger accounts and registers, and conduct the general work of the office One elera —Record-keeper and reference clerk

Ino claria -Copyists One clerk -Vacant

Total 21 clerks

(3) None (a) PRESIDENCY PAY OFFICE. 1 head resistant

5 2nd class assistants 6 Sid do do 5 4th do do 1 taeasurer

1 moonshee. 19

PAY SECTION

One assistant - Supervises the working of the entire office

One assutant — Keeps up registers of family remittances, miscellaneous deposits, &c
Three assutants — Check establishment pay bills, triveling bills, officers pay bills, &c, adjust

demands, and assee last-pay certificates Two are strate -In charge of register of all pensions paid by pay section, register of service funds,

&c , and make out disbursement schedules Two assatunts -Write cheques, multary and marine, transfer receipts, &c

O w assistant - Reference clerk One assistant -Diary keeper.

Two copyrete One cash-keeper

PENSION SECTION

Three ainstants - Deal with all questions relating to Native military pensions, prepare all schedules and returns, and conduct the correspondence of the section
One treasurer — Makes payments, and keeps vernacular cash book

One moonshee - Performs vernacular work

(b) None

(a) NORTH WESTERN PROVINCES CIRCLE

Allahabad Pay Office

1 let class assistant

6 and do assistants

9 3rd da

8 4th do

2 treasurers

2 moonsheer

23

Duties are the same as in the presidency earlie pay office

(a) None (a) Punjan Cincin

Pay Office

1 1st class assistant 6 2nd do assistants

5 3rd do

3 4th do

1 moonshee . 1 treasurer

17

Duties are the same as in the Presidency circle pay office (b) None

Major O R Newmarch Ac-

(a) At head quarters (b) At Calcutta

and their respective duties are us follow ---

Mn. Toxes, chief accountant-

Has general supermon of the office establishment. Distributes payers to assistants, and notes theseen low they are to be registered, &o. Impects and untuke all pay and contingent bills of the office before subments for signature. Tracks all covers each by rock on Her Magnety's service Applications for leave, &o. After assistants are made through the chief accountant. All cases, drafts, &c., are submitted by the assistants through the chief accountant, through whom also all papers are ordinarily sent to office by the accountant-general and assistant accountant-

general.

Regal varients (Fer Office)

Notes the creders these relating to pay and allowances which

there of earlier present order |

Reference markets

Estumetes, military —Budgets, revised, and each requirement. Reasumes, consolidates, and prepares reviews thereon for orders.

Percentium, suction my orders

Empendium, suctions, —Turnshes explusations connected with, prepares annual report on—
Pay and ellows on—Propuse case relating thereto
Pay Gold for India—Propares draft general orders of corrections in, and correspondence connected with-

Mr. Dias, senior assistant-

Prepares for orders cases on the following subjects, also keeps a note of all Government decisions hearing thereon -

Appointments Army Last. Asylums Camp followers

Claims Clothing Commands Discharges

Disturbances Dress Labstment Letates (Natave troops)

Forego. Guards

Pield operations Furlough and leave

Henerary distinctions Honors and rewards (officers) Medals and rewards Memorals Military department

Officers Pensions Prize Rewards (Native army) Savings banks Service Special

Striff corps Volunteer corns Women and children MR DEMONTS, sensor assistant-

Prennics for orders cases connected with the following subjects, also keeps a note of all Govern

ment decisions bearing thereon

Accommodation and quarters Account department multirry officers (Appointment promotion, and distribution

of officers) Budgets - Notes all orders affecting-

Barrack Department Cantonmonts

Complaints Defences Discipl ne Judicial matters

Med cal department Organisat on

Passages (land and sea) Pensioners-Analyzes the returns of mi

htery and envil-used in the militury department In addition to the above, Mr deMonte assists in the examination and consolidation of the mili

tary budget estimates Mr. CLERTEN, Let close assessment—
Prepries for orders cases connected with the subject "maime", also Leeps a note of all Govern

ment decisions bearing thereon

Marine by leefs — Scrutmizes the annual budget of Bengri, Madris, Bomby, and British Burma

Mouse of eas — Keeps a corrocted list of—
Mouse of eas — Keeps a corrocted list of—
Mouse of eas — Keeps a corrocted list of—
Mouse proceeds of — December—of local governments—and submits for orders any decisions or
subolutions therein recorded opposed to rule or otherwise requiring notice.

Mr. Berver, Sud-dest assistant (et process on Jerlings)—His dates are at present dutribite!

among the other assistants Prepares for orders cases connected with the following subjects, also keeps a note of all Govern

budget appendices

ment decisions bearing thereon -Advances Agneultural Artallery Camps Commissariat. Drill and instruction. Horses Inspections

Native Imguages Natave States Ordanace Organization In addition to the above Mr Bryant assists generally in the examination and preparation of the

Funds (I S P P only) Schools Stads Unattached hst Vetermary department Wannt officers

Railways (use of-by military depart

Reports - Reviews and propages for orders

the unusal administration and finan

end-of departments and factours in

Transport of baggage and stores, &c

ment)

Regimental institutions Register -- Keeps up a-showing the fin-ancial effect of all orders relating to

army expenditure

the three presidencies

Royal engineers

Rolling parties

Regulations

Diuestional

Exhibitions

Ecclesystact

Equipment Establishments

Santataon

BABU M L GHOSE 2nd class assistant-

Record keeper and reference clerk, has charge of all documents, and maintains detailed reference

Mr. Cock 2nd class essessant-

Is in charge of the following statements and returns connected with the military accounts of the three presidencies, maintains the same to date Leeps a note of decisions, &c., connected therewith, and drafts correspondence -Camps of exercise

Cash and deposit recount briances Expenditure (receipts and charges)

1 muly allotments London recount current schedules and vouchers

Loudon account current Prize funds Remittance accounts current of the Secretray of State Remittances, soldiers', &c Savings broke

Her Majesty's Indian troop ships BABU B M BANNERJEE, 2nd class assesse if-

Indeeds and esta elector Europe stores appertaming to the several departments in the three presidences. Examines and prepares remains thereon for orders, also dusts correspondence connected the couth loops a note of all d essons relating to indents and estimates Crays of creaces -Prepares estimates of cost of-

Reliefs and move se its of troops -Prepries estimates of cost of-

Monthly state nexts of stores a d fraghts paid in England, and of suppress despatched to India -

To the large many and the large many and the large many and the large many and the large many and the large many and large many and large many and the military budget estimates of the three presidencies

Mr. Maxula 3rd class assistant-

Regulations -Corrects to date the various multary and pay regulations and codes, and assets in general work

BING K C CHASTERIFE, 4th close assistant

(at Calcutta) Record keeper and reference clark at Cale its

Has charge of of stationery and office cost at Calculta

Base G C Chargenge Sed class constant Assast Mr Cook with the accounts and Mi deMonte in Leeping the register showing the financal effect of all orders relating to wany expenditure, also assets generally in the budget work. He REEEDT, 4th close constant

Supernatends copyrists, examines all papers copied, and supervises despatches

Bur M L Dass, 4th claim similari-

Assistant record-keeper and reference clerk Office bills-Pry and contangent, prepares these

free and advances \ —Has charge of—at Smile, under the orders of the chief accountant Office stationery

Ma Wener, 4th class anustant-

MR Cockbunn, 5th class constant-Keep the registers of all documents received in and issued from office

Bane A C Chargener, 5th close constant-Despatcher BABU S C CHATTERIED, bik of ass accessant-

Copyest and general assistant in radent section BARU N C GUPTO

" O K MATTER
" P N GROSE

(at Calcutta)
Andre Kurina BABU B N ACHARIYA. officiating

Copynsts, &c

Colonel B Welton, S pfst and Agent, Army Clott ing Bengal

Colonel J. E. Couper Duration of Army Remount Operations

(a) Fide scholule No 10 m unswer 9 (b) None

Tute following statements of the offices of director and of the Hapar and Saharunpur depôts respectively An office effortune of Rs 100 per month was sanctioned by Gov-ermment for the remount agency at Calcutte, when it was first establish

ed, and the same arrangement continues in force Statement alcowing the musher of writers attached to the office of the director of army remount operations, and their respective duties

λo	Description Amount of pay		pag	Nature of duties	
-	Head clerk Tirst writer Second writer	Rs 250 120 80	0	0	Confacts correspondence, and registers all documents received, parts up reference contented with correspondence, and super waves office generally. Club copyrist indicates, and preparer of statutetes of remounts, also animal int with the state of the content of

Statement changing the number of writers attached to the Hapur remount depth office, and their respective

					के क्रा
20	Descript on	Amount of Just			Nature of dut ex.
1	Head writer	Re 120	A 0	9	Correspondence, cash-book ledger, &c., keeping of the recounts, reforms, &c., and to check all stock and cash recounts. To excress a general supervision over the whole of the office
1	Second writer	60	0	0	people, and see that each performs has duties properly Dulies, balls, descriptive cell of remounts, stock hook and returns, muster cell of Native despitant at the certable manage.
1	Third writer				copying correspondence and spatage books Copying of returns, bills making of temount tickets, and Accoung tegrators of borses, unclung timeself generally useful, such as triking the second clerk s and godown billak's dutes, &c.
1	Treisurer and moonshee	24	Û	Ø	Personn correspondence, Leeping of cash-book and accounts in Person

Statement showing the number of writers attacked to the Saharunpur remount depol office, and their respective duties

No	Descript on Amo no of yes		Asture of duties					
1 1 1 1	Head writer Second writer Trud writer Treasurer and moonshee	50 0 0 20 0 0	Conceptedence, accounts and book-leeping Account register of houses and preparing bills, &c Copyst, I cope of dashes and bills, &c Cash and veinscular accord I coper					

3 H B Hallen I'sq General Super i to det 5 of Herse Breeding Operat ons

At the head quarters-

Office of general superintendent-1 head clerk 1 second elenk

1 thard clerk and moonshee 1 fourth clerk In each of the offices of assistant superintendent

1 head clerk l second clerk 1 meonshee

The datas of the office establishment of general superintendent have been detailed in the preced mg userer (No. 9). Those of the assistants are to carry on correspondence with local Governments, general superintendent, horse breading operations, and distinct or earl officers, leep up age steep of Corenments allo as and of breaded major in both English and vertrendry, respectively for fregsters. certifying dates of serving of mires birth of produce, &c to the owner of each branded mare, submit to the office of general supraintendent annual, half-pearly, quarterly and monthly statements and bills for keep of stillions contingent expenses, &c , in connection with the operations of this department

Major-General S r P S I umsden esi Adjutant General m Ind a

(a) 31 clest s and 15 writers

(6) No clerks employed elsewhere divisional offices are paid from the Rs 135 per month allowed to the assistant adjutant-general The duties of the cierks at head quarters are detailed in the accom-

praying office* manual, section IV

Colonel C C Johnson Offi enting Quarter Muster, General a At head quarters-European clerks 12 Nature ditto European draftsmen Native ditto 6

When the intelligence department is established, it will consist of-1 sergeant

2 corporals 7 miyates

With divisions-

European and Native cleri s 20

The sultines of these latter being fixed, divisional officers have discretional power to entertuin

European of Natives as most convenient

Duties -The European clerks at head quarters superintend branches, write notes on cases, draft correspondence, keep digries, prepaie important returns and compilations write precis examine and report upon cantonment fund and punksh and tattie estimates, and check accounts, also examine the work of the copyrsts

The Native clerks leep office cash accounts, prepare indents and periodical returns, assist the European record Leepers, keep office indexes and reg sters, copy correspondence, and despatch letters

Distanced offices

The clerks in these offices perform somewhat similar duties to those at army head quarters, with the exception that, being less efficient is regards education, training, and experience than the more highly raid clerks it head quarters, all the important reports and correspondence are prepared by the departmental officers attached to commands

Colonel A H Murray Deputy Adjutant General Royal Artillery m India

There are nome European clerks and two Native copyrists on the establishment with one temporary hand (Nature copyrist) during the present pressure of work, owing to the Cabul campugn. These are all

at head quarters The duties of the head clerk are to receive and open all official letters,

receive them after being entered in the drury, and submit them for orders with the usual pievious pipers and report, and distribute the work amongst the elerks under him. He submits all letters for signature, keeps a check upon issue of stationery and upon all contingent bills, supervises, and is responsible for the working of the office generally

The second and third cler's dust and write letters

(The second prepares all cases for the Commander in Chief keeps the confidential reports and books)

[Appendix IV (1323)

Two are employed with the returns and correspondence relating to them

earlier and cease much later, working even occasionally on Sundays

One with promotions and transfers of non commissioned officers and men, practice, &c , and One van promotions one consecution to not commence where and many provides all there are occupied with the dances, precess work, and comparing

The Native copysis write far letters from drafts, copy enclosures, &c., and despitch

All these men are fully occupied from 10 AM until 5 30 EM, and some of them commence much

Colonei J Young Judge Advo-cate General Bengal All at head quarters

An ao nean quarrers

Head annuard is channel of communication between judge advocate-general and office, receives, registers, and keeps notes of cases
received, and prepares them for submission to me, drafts replies in cases within his special province, also warrants under preparation for

Commander in Chief's agenture, prepares schedule papers for the Commander in Chief, and takes Communicate in class a suprimire, properts screenic papers for the Communication in the action on the orders received, has general superintendence of othe

Remain ansatinate examines fair copies of all reports, letters, &c., prepries abstracts of courtsmarked for report to the Communicat in Chief, indexes all office opinion books, and chief sandry

office returns

Third assistant registers all courts-murtial and monthly returns of courts martial (Native) from divisions, prepares returns relating to courts murtial, and helps examiner

Fouril constant indexes office letter book, doel ots and deposits papers, is despitcher, and

helps exammer Seven Native writers transcribe all reports, memoranda, letters, &c , for despatch and for

office books, and help the assistants in answering references, depositing and filing courts-martial Recept arrangements beying somewhat reduced clerical labor in this office, in event of any Native writer finding employment in other offices as one or two of them have applied for work would be carried on without filling up their places, unless such should be found absolutely necessary

P P Coll na Esq Prac pal Vetermary Surgeon Beogni Army

(a) At head-quarters, one head clock and one writes (6) Elsewhere, at Mecrut one head clerk

Major A S Hunter D rector of Garreson Instruct on 11 India

There are no clerks or writers in this department receiving Government pay either-

(a) at head quarters, or (b) elsewhere

Mayor H. J Hallower Inspector of Gymnes as a lectua Mayor F W Duna Supernatead out British Army Schools

One clerk at head quarters, who makes out all returns copies letters, &c , and keeps duary of letters received , also despatches all covers, &c vide answer 9 The clerk is paid out of the office allowance

One writer on Rs 80 a month in the office of the superintendent only His duties are indicated in answers to queries 1 and 9. I have lately renowed an argent application several times made for additional clerical assistance. One writer is wholly madequate to the requirements of the office

Major P. H. Marel. Super atend ent. Antice Army Science Umbella Calonel B. A Moore Acting Comm sarry General Madres I have only one clert, who copies and I eeps up registers and record-books from my papers, with all other office duties A last of the elerks was forwarded with my reply to query 4 (6), section I

Colonel S. H. F. Character sq. charge Ordnance Department

One manager, one deputy manager, and twenty-three clerks in the office at head quarters none belonging to the office elsewhere
There are, however, fifty orght cleaks employed in arsenals, factories,
and depots at Aladias and out-stations

The manager has the general supervision of the office

One deputy manager and three assistants in the ordinance section are chiefly employed on correspondence, returns, reports, &c., connected with minufreture of powder, fezes, takes, gun-earringes, &c., replies to references from Government regarding war material, &c., correspondence with regiments regarding alterations, additions to, and general questions respecting, equipments, preparation of administration reports and annual statements of alterments and equipments of forts, armiments, &c

administration reports and actual statements of naturement on equipments or zero, arraneous, see One cleel and two creatings, checkeng and passing undersit from regiments; butteres, and depart-ments for applies, extramethous, &s., of a zero, bound and cluef cred undersit, enterest a spectral One clert, and three vascinatives, perspectiving of various clear and passing afteres, remain indicate for costs of Langua stores, remain indicate for Europe stores, group orders for disport of unsearcracked and excellent stores, benching and passing of billing theological department of contracts and tenders, and checking stores, the contract of the contract of the contract of the contract and tenders, and checking stationery indents

One derk and one resistant,—promotions postings removels, &c, of officers, warrant and non-communisated officers, and of the European and Nature establishment, and general correspondence regarding pages and of the department

One clerk and tince assistants employed in fair copying letters, returns, reports, statements, &c. One clerk and four assistants employed in attending to record department, keeping postage

accounts, and despatching letters, &c One clerk keeps a general register of all documents received in the office

All clerks in factories, arsenals, and depôts are employed on the usual routane work of their offices Surpera General C A Cordon M D C.D Pr respet Medical Off cer British Forces, Madens The terms "clerk" and "writer" as applied to the surgeon general's office are synonymous

Statement showing the number of morters attacked to the Sabarunpur remonal depot office, and their respective duties

No.	Descript on	Amount of pay			Acture of duizes
1 1 1	Head writer Second writer Third writer Treasurer and moonshee	Rs 120 50 20 24	A 0 0 0 0	0	Correspondence, accounts, and book-Acepung Keeping register of lesses, and preparing bills, &c Copysis, keepe of dailies and bills, &c Cash and vera-scalin second keeper

J H B Hallon Esq General Superate about of Horse Breeding Operations

At the head quarters-

Office of general superintendent-

1 head clerk 1 second clock.

1 third clerk and moonshee

1 fourth eler

In each of the offices of assistant superintendent-1 head clerk

1 second clerk 1 moonsher

The duties of the office establishment of general superintendent have been detailed in the preceding mester (No. 9). Those of the sessionist we force course on correspondence with local Government, general soperationism, loose breeding operations and distinct of a cryo officers, loop unguistant Governments, bosos breeding operations and distinct of a cryo officers, loop unguistant of Government shillows and of branched manys, in both English and retrievaler, seems extends of regulars certifying dates of serving of mores borth of produce, &c , to the owner of each branded more , submit to the office of general superintendent annual, half-yearly, quarterly, and monthly statements and bills for keep of stillions, contingent expenses, &c., in connection with the operations of this deput-

Major-General Sir P S Lamaden r c n o s.r. Adjutant-General in India

(a) 31 clocks and 15 writers (b) No clerks employed elsewhere, divisional offices are paid from the Rs 135 per month allowed to the resistant adjutant-general

The duties of the cler's at head-quarters we detailed in the accompanying offices manual section IV

Colonel C. C. Johnson. Offi easting Q orter Mostey General in India

At head quarters-European clerks 72 Native ditto 11 European draftsmen 9 ditto C Natave

When the intelligence department is established, it will consist of-1 sergeant

2 corporals 7 privates

With divisions-

Dinopean and Native clerks 20

The salaties of these latter being fixed, divisional officers have discretional power to entertain

Entirety or a very missen outgoing many interests under the property of the pr work of the copyrate

The Native clerks keep office eash recounts, prepare indents and periodical returns, resist the European record Leepers, keep office indexes and registers, copy correspondence, and despatch letters

Divisional offices

The clerks in these offices perform somewhat similar duties to those at army head-quarters, with The effects in these offices period software similar quase or more to may menejament your the exception that, being less efficient as regards education, truting, and expanence than the mero highly pard delaks at head quarters all the important reports and correspondence are prepared by the departmental officers attached to commands

Colosel A. H Marrey Deputy Adjutant-General, Royal Artallory on India.

There are nine European clerks and two Native copyrets on the establishment with one temporary band (Nutive copyrist) during the present pressure of work, owing to the Cabul compugn. These are all

t head-quarters
The duties of the head clerk as to results and open all official letters. receive the matter being enthered in the durry, and submit them for orders with the usual previous propers and report, and distribute the work moneys the clerks under him. He estimate all betters to appriction legis, a clerk upon a same of stringery and upon all contingent bills, supervises, and is

The second and third clerks draft and write letters

Commander is Chief, keeps the confidential reports and holks

(The second prepares all eas a for the

(1323)

Two are employed with the returns and correspondence relating to them One with promotions and transfers of non commissioned officers and men, practice, &c , and

there are eccepted with the diames, precure area, and compruing

The Native copyrets write tar letters from drafts, copy enclosures, &c, and despatch

All these near are fully occupied from 10 at world 5 30 r m, and some of them commence much earlier and cease much later, working even occasionally on Sunday

Colcoel J Young Judge Afro cate Central Bengal.

All at head-quarters

Head constant is channel of communication between judge advocate-general and office, recences, registers, and Locus notes of cases received and prepares them for submession to me duality replies in

cases within his special province the variants under preparation for Commander in-Chief's agartime, prepares schedule papers for the Commander-in-Chief, and tales Communication in-come is significantly large in section to the contract received, has general supernaturalization of the

**Communication received, has general supernaturalization of the

**Communication received, has general supernatural letters, &c., prepares abstracts of courts

**marchial for report to the Communication Chief, underse all office opinion books, and cheeks stundry

office returns Thir I assistant registers all courts murtial and monthly returns of courts-martial (Native) from

divinous, prepares returns relating to courts martial and helps examiner For rik assistant indexes office letter book, dockets and deposits papers, is despatcher, and

helps examiner Sence Nature meters transcente all reports, memormada, letters, &c., for despatch and for office books, and help the assistants in answering references, depositing and filing courts martial papers, &e

Recent arrangements having somewhat reduced element labor in this office, in event of any Native writer finding employment in other offices, as one or two of them have applied for, work would be carned on without filling up their places, unless such should be found absolutely necessary

P F Coll ns Feg Pro e pall Vetermary S rgoot Bei gal Army

(a) At head quarters, one head clerk and one writer (6) Elsewhere, at Meerut one head clark

Mayer A. S Hoster Decelor of Garmen Instruct on m India

There are no clerks or writers in this department receiving Government pay either—

(a) at head quarters, or (b) elsenhere

Major H J Hallows Inspector of Gynnas an Indu

One clerk at head quarters, who makes out all returns, copies letters, &e , and keeps dury of letters received also despatches all covers, &e कार्युत् अग्रहण हर ही The clerk is paid out of the office allowance Major P W Duan S penatenal cul, Butash Army Schools One writer on Rs 30 a month in the office of the superintendent

only. His duties are indicated in answers to quenes 1 and 9. I have renewed an urgent application several fames made for additional clerical assistance. One writer is wholly madequate to the requirements of the office I have only one clert, who copies and keeps up registers and record

Mayor P H Morsh Superinfund ent, Aufase Army Schools Umbalka Colored R. A Moore, Acting Commissary Ge stal II dras

books from my papers, with all other office duties A last of the clerks was forwarded with my reply to query 1 (b), scetion I

Colonel S. H. E. Clamer as charge Grd anco. Departament,

One manager, one deputy manager, and twenty three clerks in the office at head quarters, none belonging to the office elsewhere. There are, however, fifty eight elerks employed in arsenals, factories,

and depots at Madras and out-stations

The manager has the general supervision of the office One deputy manager and three assistants in the ordninge section are cluefly employed on correspondence, returns reports &c connected with principalization of ponder, fuzes, tabes, gene-erringes, &c replies to references from Government n., unling wir mattered, &c correspondence with regiments do regimes to reterrance stom concentration to the transfer of the concentration of the regarding alternations, adultions to, and general questions respecting, components, preparation of administration reports and annual statements of inflationists and engagements of forts, armaments, for One clerk and two assistants,—sheeling and prising indents from regiments, butterns, and depart

motte for signites: examination, loss, of areas, bourts and edited risk instances; necessaries motted for signites: examination, loss, of areas, bourts and edited risk instances removaries reported.

One detal and three assistants,—representate of unutual badgets, estimates of cest of Europe dates, amonth motte for Europe extens, groung others for desposal of uncervaerable and redundant adverse et cellung and praumy of fulls, checking and approving of contents and tenders, and checking

stationery indents One cloth and one assistant,—promotions, postings removals, to , of officers, warrant and non-commissioned officers and of the European and Nature establishment, and general correspondence

commissioned concess min or not account and an analysis of the commission of the department.

One clear and three assistants employed in fair copying letters, returns, reports statements, &c. One clerk and four resistants employed in attending to record department, heaving postage accounts, and despatching letters &c

One clerk keeps a general register of all documents received in the office

All elects in factories, aremals, and depots are completed on the usual contains work of their offices Surgent General C & Garden The L UD OF Procept Medical Officer, office are of British Forces Medica.

 χ^n and " writer" as applied to the surgeon general's

There are 11 clerks, we g nt head quarters

10 at Ostreamund

Some are employed in the statistical branch their duties being, under supervision of the manager, to abstract the various items of statistical information from the weekly and other periodic returns, to assumes the valuous teams to assume a moral arrow one to see the period court periodic results, and to peppine the various stabstered tables required to accompany the annual and other reports submitted to directin general, unmy medical department and to Government. Others are employed in the correspondence department, their dates being confined to copying, indexing, and registering the office correspondence on ly received and issued, and in Leeping up the various office records

Dr H P Gowald Act og Sur geou Ceneral Indian Med cal Ser v ce Madras

(a) The office establishment of writers at head quarters is-1 manager 1 examiner

1 budget elerk 2 first class cleaks 2 second class clerks

S copyists I registering and despatching clerk.

2 record-keepers (8) There are no clerks or writers elsewlere than at head quarters

The respective duties of the several members of the office establishment may be briefly summarized thus -

Manager - Drifts letters under orders and for the approval of the surgeon general and secretary, arranges for the enlistment, education, and posting of medical subordinates, diafts the military budget estimates of the medical department, exercises a general supervision over the office, and is the common referee Leanunce and underer -Compares transcripts with originals Leaps drary of daily transactions,

indexes all disposals before desputch, assists in the disposal of routine papers, and compiles the quarterly sheet of circulars and general orders Bright dest — Treputes the evril budget estimates of the medical department, monthly pay abstract of the office, numeri modest for European medical steres on the Home Government, and the forecest estimate of stores, checks local fund budget estimates of civil hospitals and dispensance, and

supervises civil hospital expenditure

First class clirk -In charge of the statistical department, prepares the following statements for the annual reports submitted to Government-

(a) Returns for the administration report, on il and military,

(b) Returns for the limate asylum, (c) Returns for the lock hospital,

(i) Returns for civil dispensiones (c) Returns for Native army of Madras,

and attends to the correspondence of the statistical department First class cler! —Reg sters statistical rations, and is in charge of professional records, assists in the compilation of statistical returns enumerated above

Noticed class reduct cleri —Beginters and dispuses of indents of executive included afficers for wells cal stones and other supplies ,—compiles military budget estimate of the modical department as checked

by the manager librarian Second class clei/ -In charge of the books connected with commissioned medical officers and medical subordinates prepares quadrenneal statements of service of commissioned medical officers, statements of service for the Commander in Chief of all officers proceeding on leave to Lingland, indexes

general orders, and keeps the derm officeral letter book

Registering clerk — Registers the dealy receipt of letters and desputches all disposals

The coppist and record I ceper's duth's being of vious, need not be detailed.

The following statement will furnish information as to the grouth of work since the present office

establishment was fixed in 1867, without any addition since to its numbers -

Letters desputched 5 298 Letters received 1867 5 720 11 023

Dr W H W Corash rucs Sar tary Comm so o er for Madrus

One manager and seven clerks at head quarters in Madias, none elsewhere One of the clerks by turns accompanies the Suntary Commissioner on tonis of inspection. Their duties are as follow —

Manager is in charge of the office in the absence of the sanitary commissioner on tours of inspec tion which extend from six to eight months annually. Conducts routine correspondence, edits the monthly proceedings of the sandruy commissional prepries obstracts of sandruy reports from mumor pulities local frind or des and contonments, and exercises general superintendence over the whole department general and statistical, &c

One clerk examines of correspondence and record keeper, and in charge of library. Two clerks for registering of lette is &c., received and despatched, and as general copyrists I our cler's employed in the tabulation and compaints on of all statistics relating to the general population, jails and army, received in the sanitary commissioner's office

Colonel J W. R deout Controller of Mintary Accounts Madres

(a) Clerks, &c , at head quarters General department— 1 Head ass stant

2 Head clerk

3 Indexes Record Leeper 5 Drug-Leeper

6 Despatching closs 7, 8 & 9 Copyists

Pension departmentl assistant l verifying elerk Budget department l assistant 8 eleri s

The head assistant and two assistants have charge of their respective departments, prepare drafts, &c The head clerk examines fair copies, sees to the despatch of circulars, reminders, and other rou-

tine work of the office

The designation of the other clerks sufficiently explain the nature of their duties (b) There are no clerks elsewhere than at head quarters

Pay Examper Madras

l assistant examiner, 1 superintendent, 2 Ist class clerks, 5 2nd do do 4 Srd ù 19 4th 17 5th do 10 computers,

9 record Leepers, and it is with difficulty that the work can be done with the above establishment, as it leaves no margin whatever for sickness or abrence during which, when occurring, work would fall in arrears were this not prevented by working extra hours

The office is specially weak in superior clerks te, the number of 1st, 2nd, and 3rd class clerks,

and I may have to submit a representation on this subject ere long The duties of the clerks may be briefly thus detailed -The assistant examiner is a supervising officer, and assists the examiner in the control and work

mg of the office and checks eask bills received for pre-audit The superintendent assists in the supervision of the office has charge of the stationery, postage labels, permanent advance, and superintends the issue of printed forms to regiments, butteries, &c , and

the office servants are under his immediate charge The clerk in the rge of cuch section of audit assisted by the clerks under him, audits the pay list, &c , and prepares the objection and disallowance statements , be drafts replies to papers referred for report letters, &c , and is responsible for the work of the section. The computers check the rates of

any and calculations in the pay lists, &c

The indexer loops in index of all orders of Government, His Excellency the Commander in Chief's,

and the orders of other presidences, and is in charge of the office books

The head eleck, correspondence section, Leeps a register of, and despatches, all letters, &c , and assisted by the other clorks, ninkes fan copies of correspondence, objection and disallowance statements. &c, which are very heavy

The head record keeper is in charge of the office records

The head compiling clash conducts the correspondence in this e-role, and assists in and supervises the work of compilation and the preprintion of schedules performed by the clarks under him I may observe these replies are of necessity very brief owing to the time allowed me to meet this

edi Essm ner of Coom statust, Cloth ing and Stud Acounts Madeus

(a) 1 superintendent on Rs 300 to 400 2 1st class chales on Rs 200 to 250 3 2nd datto on Rs 100 to 150 ditto on Rs 70 to 90 ditto on Rs 40 to 60 ditto on Rs 40 to 60 9 3rd 10 4th 21 oth 15 computers on Rs 20

(6) All at head quarters, elsewhere none As regards their duties, onle this office letter No 2556 of the 21st December 1570 and with regard to the particular duties of the clothing section, sale code or regulations of the military accounts department chapter VII, 'clothing examiner's other

Examiner of Orlinance Accounts

Madesa

(a) At head quarters-I superintendent 1 lsi ches clerk 2 2nd class clerks do 4.3ml do 8.4th S ath do 6 computers 30 total

Of these, 11 are auditors employed in the ordannes and regimental audit section in scritimizing the several transactions recented in periodical accounts rendered by ordannes required and station. stuff officers to this office. Thurteen are engaged as accountant in the account section are as follows -

I -Prepring mouthly each and store compilation statements II —Preparing monthly list of easil recoveries for despatch to account branch office

III -Preparing abstract of recounts for annual transactions, under their several account beads

IV —Reporting on annual and special indents and estimates for Europe stores

V -Reporting on tenders

VI -Preparing annual expenditure under several grunt heads of service for inspector general of ordernce and magazines

VII —"Probalating invoices received from and checking payments made in England VIII —Preparing annual return of dead and quick stock

IX -Preparing annual financial review of ordnance expenditure

X —Passing bills for local supplies, freight and miscell-meons charges
XI —Adjusting advances of cash authorized by inspector-general of ordnance and magazines XII -Preparing valuation statements (debit and credit) of inter-departmental transactions, as

well as those with other Governments, &c , and

XIII -Attending to other miscellaneous statements, &c Three clorks are employed in the record department, they are required to register all papers received into, and despatched out of, the office in their respective registers, to arrange all disposed of papers according to their subjects, and to put them in their respective bundles. They also collect correspondence, index all Government orders, and occasionally assist account and audit sections of the office

Two clerks are employed as copyrets The superintendent, besides witching the correspondence received in the office, sees that all accounts, reports, &c , use promptly attended to , frames reports on various questions referred to the examiner, and passes all dialits, statements, andits and fair copied letters and documents for examiner's approval and signature

(b) Elsewhere none

There are one superintendent and 12 clerks employed in the military Examiner of Medical Accounts duties of this office

1 Superintendent —Exercises a general supervision over all the work

of the office and conducts current correspondence

1 Srd class clerk -Audits and compiles all charges other than those disbursed by the commissarrat department

2 4th class clerks -Audit and compile commissin at charges of four ranges, prepare price lists, and check half yearly returns and inventories of surgical instruments. 8 5th class clarks—Of whom, three audit and compile commissant changes of nine ranges, three audit store returns, and cheel invoices of Duiopean medical stores, two keep diames of letters

received and despritched, and give infliences, &c , &c

1 computer is in charge of records and comes letters, &ce In addition to the clerks employed for mulitary accounts, there are four clerks pud by the civil department attached to the medical examiner's office. They are engaged in pitching and compiling vouchers for medical stores assued to all departments other than malitary, including the audit and compilation of all charges mearred in the 9 civil hospitals at the presidency town

Exam nor of Medical Fund Accounts Madras

The establ shment of the medical fund office consists of 1 manager or head clerk and 2 other clerks The head elera calculates the values of contingent pensions secured

for wives and children

Issues wurnants on the paymaster on account of payments due by the fund Preprices monthly statements of recoveries made by communiting officers, &c., for transmission to

the accounts branch of controller's office Compares receipts from Madias bink with the monthly statements received from the accountant-

Forwards certified lists of recoveries made in other presidencies to the accountant general for vention

Examines monthly and quarterly statements of payments made by presidency paymaster

Corrects up to date the list of subscribers and small annuitants

Takes note of all promotions, retarements, casualties, furlough, &c , and arrayal and departure of subscribers from Madris

Has charge of current correspondence

2nd clerk -Posts all subser places in the subscription book, audits the accounts of subscribers

Prepares statements showing payments to be made by subscribers absent in Europe Prepares statements showing balances due by subscribers on succeeding to annuties

Notifies to subscribers payments due on promotion, marriage, births of children, &c

Adjusts over or short payments of allowances to sick officers Checks calculations made by the head clock

Prepares monthly pay abstracts

Srd cler! -I ur comes drufts of letters and statements Desputches all letters to their respective

addresses Registers all letters, statements, &c , received in the office

Examiner of Madrus Military Funds Accounts, Madras The establishment of the military fund office consists of one head assistant or manager and 12 clerks The lead assessant has direct control over all the other clerks, he

has the entire supervision of the clerical business of the office, and conducts the current corre

I dor'd has charge of registers of annuties statements of recoveries by paymenter and others, venfertion of documents by recommant-general and the recounts branch of the controller's office I dor'd has charge of I volume lodger, checks accounts, and assues exclaimates to officers proceeding to Europe 8 c. to Europe &e

3 cleris have charge of 3 ledgers of personal accounts

I cleri has charge of general ledger, also of the day-book and ledger of the Indian family pension fund

2 clerks have charge of nominal roll, register of main ages and baptisms, registers of subscrip tions psyable and prepare returns

I clark has charge of loan ledgers 2 clerks have clarge of the monthly report register and the preparation of various documents

connected therewith the copying registering, and despatching of letters I clerk performs the duties of record keeper and assists in any other work that may be required

Mil tary Accounts Department Account Busines Madres

The strength of the establishment is given below-1 head assistant 4 third class clerks. 6 fourth ditto 2 first class clerks 14 fifth 2 second ditto

6 computers The duties of the office are described in the code of regulations for the military accounts branch, chapter II, published in Calcutta in

Presidency Pay Office Madras

The total number of clerks and writers employed in the paymaster s department is 19 These are all employed at head quaters, none else where The pay that they receive is as follows -

where the box may reel tecere	C 19 fm		,,,,				
	M'm	mentr		Man	torini		At twell necesse
	Rs	A	P	Rs	A	P	Rs
1 head assistant 2 lst class clerks at Rs 100	200 200	0	0	250 300	0	0	10 10
to Rs 150 3 2nd class cleris at Rs "0 to Rs 90	210	0	0	270	0	0	4
4 3rd class clerks at Rs 40 to Rs 60	160	0	0	240	0	0	4
6 4th class clerks at Rs 20 to Rs 40	120	0	0	240	0	0	4
S copyrate at Rs 20 Il servants	80 76	4	0	60 76	0 4	0	

There are five employed as auditors one head assistant three as accountants one cheque writer and cash keeper, also one transfer recently writer, one day book writer with one "vestant, who also copies schedules of theques one assistant day book writer who also copies schedules of theques one assistant day book writer who also copies schedules of transfer recently, also the other clears to carry on the general working of the office.

Lecutement-Co			
Superintendent Madras	Army	C	kthu

No	Designat on	Salary
		Rs
1 head as		250
1 head ac		150
1 deputy	accountant	70
1 lat assa	stant account int	50
1 2nd		10
1 dennty	assistart accountant	10
1 tabulate	or of indents	32
2 calculat	ors at Rs 35	70
٤.	. 30	60
1 examine	n of indents	100
1 deputy	exumine of indents	a0
1 correspo	ndence elerk	85
1 duary lo	eoper .	25
2 copyrate	at Rs 25	50
1 store w	oter	30
1 diary lo	ceper of supplies assued	25
I estimat	a malor	35
	it estimate maker	24
	as explained in answer 3	20
(a) Trone	ne exhanner in answer o	

Brigadio Genera F W Jebb Adjutant General Madras

Taking Madris is the heid-quarters in this presidency, the establishment consists of --

1 manager. I deputy manager, 29 clerks,

4 of whom are usually deputed to accompany the officers of the department proceeding on four with the Commander in Chief

Ma ager - Has general superintendence of the office, with charge of confidential correspondence and business of a general nature not appears ning to any particular hannels of the other, courte

um bilines of a general national and open among of any parameters, and the state of

netmements, staff corps rulmissions, leave certificates to accountant-general, keeping up of registers connected with officers' services

Has one assistant

Learner -- Examines all papers copied in the office other than returns, and is responsible that all correspondence desputched from the office is complete and correctly sont. Is also charged with bust ness connected with the metherl arrangements of the run; and conducts all correspondence relating to medical officers and subordinates

Triopeas dep rimest -- Emopera striff of the Nature rumy and grussons, schools, British and Nature obthing, pusoners d schuges, bounties, it enlishments, rations, bedding canteens, Chelsen pensioners good conduct med ils, a arrant and non commissioned officers of the unattached list, promo trons furlough pensioners' records and estates, home correspondence, and all matters relating to the

European soldier One assistant

Record depart cent -Herd record keeper and collector of correspondence with the supply of bools of regulation, soldiers libraries and correspondence r lating thereto, assue of blank forms W O and otners, majection and confidential reports, returns, charge of office franture, &c , &c

One assistant

Return departs e it - I rumming and compiling all returns received from and despatched to regi ments, butteries corps and detacl ments. Horse Gunds, Was Office, India Office, Government. Gov ernment of Inda , Adjutant General Inda Commander a Cluef Indus and to several local depart ments, including annual, half yearly quanturly monthly be monthly, as well as any special, interest that may be called for or required by the department

Two essistants, who are continuously employed in examining compling, and copying Page 0 de 0 to 1 to 1—The esamination and disposit of maching and penson proceedings of the Notice unit and of Functions achieves the admission of the valence of officers and soldiers up on Lord Chye's Fund and if e examination and disposal of the proceedings on claims to pension of heirs of Native officers and soldners

One assistant, who prep residents of all admitted elains for transmission to corps and assists the manager in work connected with officers' remount of rights, committees beging up register, &c.

As a first -Transacts all business connected with the quarterly Madras army list, correcting and examining proofs, postings of officers the leaping up of leave and frulough registers many script army list book, gradution list examination of London greattes and general orders of other presidencies, and prepares services of local officers for promotion, corneris Government office and departmental officers current arms lists

I jup uni, middly -Conducts all correspondence relating to equipment of the British and

Native rimics, arms accontinuents rifle and must ctry questions

Native array - Promotion of Native officers and men, enlistments, discharges, clams, exchanges, transfers, embail ations, war services, and all corresponder ce relating to the Native effective service

One issistant, who also registers and conducts all correspondence connected with petitions of whatever nature

Falid - His chinge of all lools and pipers connected with the pay of the establishment, tele

grams postage and contingent accounts also charge of office statement &c , &c

ale lats - Charge of the med is and medal books stars of British Ladin, order of ment, and conducts all contine correspondence having reference to them and prize claims, also in charge of con espondence connected with Native languages

General orders - Prepuration of general orders for the press, examination of proofs, arrivals and

depart ues confirmation orders &c &c

One assistant for the compilation of indices to general orders, who also registers papers passing to and from head quarters office when on tour

Proceedings of Government -- Has charge of all proceedings of Government, with keeping up of dury, endex, &c , also posts up Gorenment and general letter index.

Diary leepe -- Registers all letters received and distributes them to the different clorks for dis-

posal, mail ing off notion taken, and bringing to minagers notice any unites ered references &c Carent department -One clerk in charge of carrent records and collected papers, inspection eports, &c

Four copyrets for general work, who also keep up current indices, Government and general memoranda books

Major Jol to Disting Officiating Quarter Master General Madrie

There are at head prarties I manager and uncovenanted assistant, 16 eleals, I conductor of the martirched list, I head draftsman, 2 diattsmen and 3 moel ies. Their duties are-

Muniger and in covenanted assistant—disposes of all papers marked to him by the quatermistic general, distributes papers for disposal by the office cleal s, and superantends the management of the work cleal 1 and deputy manager—an charge of the register of tent lessars, prepares allotments of

cump e jupinge &e, to regiments assues grants of land, custodran of office stationery and postage st mps dr its correspondence on the above subjects

clerk 2—butting passage, and bore balls, eart have of Nature troops, and registers of them cler! 5—ta mast ball and contingent charges and used by troops, left references, and dockots letters, fur copies letters to Government.

tiel 1--mid.nis for crump equipage, sick even ge, caltle and bearers, cheel's returns of the same, midents for sta moner; from out-statem offices of the depirtment, dialits correspondence on the above subjects couse time; accounts

votes comes concurs

clear covers occurred and references undex to purbettly subjects

clear 6-indexts for barried supplies and disensants, custodran of books received for record,

in charge of printed forms

15 cleaks

(1329)

cleal, 7-compiler of monthly distribution returns of the army; register of movements, custodian of monthly returns of regiments

olerk 8—mdexer of orders of Government and of general correspondence despatched from the office clork 9—mepares notification of movements of corps and detachments

clerk 10-assistant record keeper and referencer clerk 11-m charge of the drary of letters received

clerk 12—despatcher clerk 13—copyist generally

eleak 14 clerk 15-reader and convist

clerk 16-copyrat The conductor, examiner-corrects regulation books in the office, charge of registers of burrels and shipping surgernts and rest-house superintendents, checks bills for lived quarters and indents

for gymnistic uticles Herd driftsmm and two diaftsmen—prepare disposition maps of the army, topographical maps of cantonments &c , Leep the route book corrected

Three moscines-prepare office covers and attend on officers of the department, mount plans, assist despricher in weighing and rilixing postage stamps to letters No clerks of this department are employed elsowhere

Colo ol C P B Sterri, J ige Ad coate General Madras (a) At head quarter-

One uncovenanted assistant, whose duties are to and the judge advocate general in the arrangement and entody of its records in disting all correspondence, dringers, reports, &c., &c., in the examination of all proceedings of general, distinct, or gainson counts, summaries of ordence amplifications for courts martial, and all other matters and prices submitted to the pulge advocate. general for opinion are submitted by the judge advocate-general to the Commander in Chief for orders or information, with general superintendence of the office

One head clerk-indexer, examiner of far correspondence, and copyrist

One clerk-copyist (b) One clerk at Madras in change of office, records and stationery, &c, and references, also a copyist when the head quarters are at Madris

Loreste sant Colo et M W Wille gi by, Commissary General The information required is given in reply to question 4 (b). paper I under the head commissury general s office Hombry

At head quarters

Major General W S Hatch Is quester Ceneral of Onl vince and Magnetines Borthay

Gun cauringe factory 12 Gunpowder factory ā Small arm ammunition factory 7 Bombny assentl 18 Poons arsenil (to be reduced to depôt, 1st

October 1879)
Aden 4 Mhow 5, Kunachee 5, Noemuch 3,
Ahmedab #1 Belgaum 1 19

(a) Heal quarters

1 head clock, supervises 2 in account branch, compile budget estimate, examine purchase lists, contracts records of store lisears keep pay and stationery accounts, conversions, and camp equipage

3 in indept branch, examine indents, committee proceedings, packing accounts, discrepancy has, wurrents, transfers of stores, returns of stock taking I p operes unual estimate and indent on Lugland, quarterly returns English packing accounts.

records of warrant officers and non commissioned officers, miscellaneous returns 2 m record branch, memus previous priess and references on correspondence, compile records, post register, arrange compilations

I despritching clerk and beeps postage accounts

I registers correspondence, posts up disposal of subjects, assists to examine copies of doouments, annual returns of stationery 4 copying clerks

15 total clurks

(b) Placeblere GUN CARRIAGE FACTORY

1 head clerk, supervises 2 accountants, value ledgers, compleas statements, &c

2 register 1 ibox and material 1 ledger and erle tlations of timber

1 muster keeper 2 general clerks, keep ledger, including that of Poons Liaich

1 pay cleil cash recount, requitance rolls, &co

1 posts duly warrant book, males up monthly lists 1 correspondence, register and files

12 total

GUNDOWDER FACTORY

1 uparvete, prepries pry, each eccounts acquirance rolls, estamates, indents 1 returns, conversions, vibrations, returns of machinery, correspondence 2 copy lotters, returns, ledgers, preprie muster rolls, general correspondence clais.

(1880) Appendix IV]

SHALL-ARM AMMUNITION PACFORY

1 head clerk, supervises
1 prepries unual recounts, values conversions, material, &c
1 financial and pry business
1 copying, and keeps correspondence

a copyrus, and access contrepondents
I quack and deed stock ledges, quarterly returns, &c
I monthly conversion book, &c
I hoops the tame, and checks labor conversions, reports of men on dvily pay, &c

7 total. BOMBAY ARSENAL

1 head clerk, supervises

2 local supplies stores from England, preprie budget

2 pay and cash accounts, acquitance rolls, &c 6 store account branch

2 office work connected with establishments, comp equipment, &c 2 charge of office ledgers

I transport of stores, packing accounts, &c 2 charge of records and correspondence branch

POORA ARSENAL

Irtot 81 1 head clerk

1 registers indents, packing accounts, issue orders, orders to contructors, &c

I posts quiel and dead stock ledger

1 pay and each accounts all office work concerning establishment

2 monthly store and other returns musters, morning reports 2 make out minor returns, copy letters, statements &c

8 total

OTHER ARSENALS

The work of clerks in the other arsenals is much the same as that at Poons, and is distributed m much the same way

Deputy Surgeon General 7 M S Fogo Officest ng Surgeon General Er tish Forces Rombay

There are eight clerks or writers all at head quarters One of them accompanies the surgeon general to Poona The head clerk -Superintends the work of the clerks in general,

accounts, pay obstracts and bulls, dustre memorand, ordinary letters and circular scorded propers to bound of the control of t

2n I cleri - Examines and compiles all the annual sanitary and medical returns and other statistical returns that may be required

3rd clerk — Compules the monthly statistical returns
4th clerk — Registers inward and outward correspondence, Leeps the index and compulations of

the correspondence branch, copies letters and apports
to correspondence branch, copies letters and apports
to derl —Despatches vil papers longer the inventory of the records, storas, &c., prepares
the monthly and annual instance of medical officers, pay abstracts and bulls, keeps the postage and
statement accounts, copies letters, reports and orders

6th clork -Compiles the general weekly returns of sick, and monthly returns for the commander m-chief, weekly returns of cholera, and quarterly sanitary report for the director general,

numerical department runny michael department runny michael department in the statistical like of 2 — Keeps the inward and outwird registers of the correspondence in the statistical branch

branch, copies letters memorands, returns, and reports of the statistical branch
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teal returns, and keeps the records of the schainfield b unable the months of the year, I consider the change of my office would be measured for most of the months of the year, I consider the change of my office would be mercessed; it do penmanent establishment were removed from Bembay to Poona

Accommodation is procurable on the finance building, for which no rent would be charged The presidency house rent of Rs 75 per mensem of my secretary would thereby be saved

7 G Hunter Surgeon Indian Medical Departs

1 chief clerk 1 budget clock 2 copyists 1 despatcher 1 statistical cleil I assistant for military

2 assistants for eral I standing medical committee cleil

The office never moves from head quarters

There are none elsewhere

the first the final elementary of the first th of all charges

Regular of outsard letter — Supervises work of budget, statistical, and stricting medical countries brushes, Co. &c.

Dadget etc.—Compiles budget, multary, civil, and marine

Regular of inward letters, go used record-keeper, and compiler of converpondence, general referee -Prepares statement of unanswered references from and to Government in the military department every quarter, preparts quarterly statements of increase and decrease in this department for the

accountant-general, examines and audits dispensary accounts, &c., &c.

**Retained elect - Prepares all statements, multary and civil for the statistical offices, who is the sceretary, in order to enable him to summarize and compile the administration reports of this

department, &c , &c

2 convicts - For correspondence

1 despatcher

I standing medical committee cles L - Prepares all cases appearing before the board, furnishes such information as the committee may call for, and prepares the record of service of medical officers proceeding on furlough to Europe for submission to His Excellency the Commander-in-Chief

The head quarters or central office is in the secretariat at Bombay Dr John Lumadame Sandary Comparisoner for Bombay The following clerks and writers are there, and their duties are briefly

l assistant in general charge of the office, and responsible for its good order

I head clerk an charge of vaccination branch, abstracts applications for leave and transfer and promotions in district establishments

2 cierks for inward and outward registers and iccords, iain and sub-soil water level returns 2 clerks for monthly registers of builts and deaths

2 clerks for cholera returns

I clerk for vaccination returns

2 clerks for copying

A total of one assistant and 10 clerks, of whom one, or two, or more recompany the samitary commissioner on tour | Lach of the five deputy sanitary commissioners has three clerks, and the superintendent of vaccination in Western Guzerat has two

They have charge of the English and vernacular correspondence, and compile the talukwar returns received from manulateurs

Clerks at head quarters Clerks in districts 17 27

Statement B shows the inward and outward numbers for the central office, and gives an idea as to the work to be done. Stricement C shows the monthly cost to Government of the entire sanitary department, but the charges are all disbursed in the civil department.

Statement Bahowing for nine years the annual sumber of innard and outward recorpts and issues in the heador arters office of the Sandary Commissioner for the Commission of

Year					Inward No	Outward No
1870	144	***	**	***	1,013	941
1871		***			1,929	2,158
1872	***				8,501	2,494
1873					6,323	
1874				**		2,801
1875		***	***	• •	6,041	2,847
1876		11	**		, 6460	2,982
	***	***		**	. 5,950	8,333
1877		14			7.787	2,908
1878		***	455		6,151	8,055
				••	111 0,101	
Mems		***			£ .70	2.524
		***	***	***	5,373	2,524

Blatement Cahousing detailed monthly cost to Government of the Saintary Depart nent of the Bombay in esidency

	_		_		~	-	-		7		-		-	-	-		-			
District	Ct	ttry na s ioer	Sa	gody diary men s Acta	of V	renn drafe facus Los.	ATE	nju.	c	lecka	Yas	qett. tr	Sq le	isiont sern d nts utcin ion	Vec	eleşt erf	I	,easa	evelling allowances o ly diam to meet actual expend ture	Total
	Number	Pay	\u00e4mpcr	rear.	Vamber	Puç	3 cmper	Pay	\ nmber	Pay	Number	Pag	Nember	Pay	\u00cmper	Pny	Number	Par	Tryfellang o ly draw notuni ex	1966
The Prefilency 1 With Devin 2, Synth 3, Synth 4 East Gazent 6 Trial 6 Stad 7 Bunday Cify	1	Bs 2 000	1	200 1 000 8.0 1 000 840 840	1	Ps 699	1	Its 200	11200000	Rs A 655 0 115 0 115 0 116 0 116 0 8° 8 115 0	the state of	Ter 100 145 200 415	2	Ra 1 5		Ds A	9 11 9 8 0 8	Tie A *0 0 *0 0 *0 0 *2 6 *2 6 60 6 67 0 89 8	300 Bs	Pr. A 3 254 0 1 903 8 3 105 8 1 657 8 1 699 8 1 693 8 1 693 8 3 80 0
Total	1	1 000	v	4,800	7	1,370	1	200	28	1,322 8	27	2,625	2	17%	2	238	65	584 B	300	I3170 G

- 1	Sealthry Catten stanner
E	Dayaty San bury Commissioners
- 2	Superintendents of Vaccion ton

* Assistant Super intendents of Vacc radion
2 Vacc radion
15 Posse
Travelling silowance to Saminry Commiss 123 Total

Legatement Colonel D B. Young Offic atrug Controller of Mintary Accounts, Bambay (Con troller a Office)

The following is the establishment of clerks and writers of the office, with their duties, there is no establishment employed elsewhere -

No	Descension

Duties.

- Disposes of all references from Government and other departments connected Head Assistant with pay and pensions, furlough, hutting money, supervises the preparation of grant 3, "regimental charges," of multiary budget
- Disposes of all references from Government and other departments connected 2 1st class clerk with commissairat ordinance, medical clothing and barrack questions, traveling charges, passages, &c., supervises the propuration of the military bad-got, except grant 3, and explains differences between the estimated and actual expenditure
- ". Assets in disposing of correspondence connected with the foregoing, prepares registers of pensions granted, examines letters and reports to Government, 3 2nd "
- and has the custody and supervision of expenditure of postage stamps and the contangent money account ... Principal budget clerk, and prepares statements and returns connected with
- 2nd ,, estimates and expenditure Leeps an index to Government resolutions Examines outward correspondence, excepting letters to Government, Leeps 3rd
- the registers of inward correspondence, distributes and supervises the copying work
- Assistant hudget cleal and prepares estimate, grant 3, prepares the office pay abstracts, and keeps registers of the leave of absence of the clerks 4th 4th Principal copyist of Government reports and letters, and keeps an index of
- them, prepares quarterly returns of unanswered references to and from Government 8 4th Second copyrat of Government reports and letters, marks off the replication
- Government on references, prepares the weelly summary of unanswered Government references, and despatches all Government reports and letters .. Despriches all other outward let ers files all letters received and sent . keets 5th
- the postage account, and marks replies, &c on the general inward register In charge of general record room of the department, and supplies printed 10 5th forms to troops, departments, &c , entitled to the same, and keeps an account of their receipt and issue
- 11 Copyist Copyrst, and notes on outward letters the replies received to them Ditto 12
- Record keeper and assists in copying 13 Ditto ... Copyist, notes on outward letters the tophes received to them 14 Ditto . Copyist

14

No 3080 dated Poons, the 29th August 1879

From-Lieutenaly Coloval D B Young, Offig Controller of Military Accounts, Bombay, To-The Secretary, Army Organization Commission, Simb.

In forwarding the replies (in two separate packets) called for in your letter No 255, dated the 15th instant, recoved on the 22nd them and with reference to paragraph 4 of that letter I have the honer to remark that economy in cleincal laker, without I thank, less of efficiency, would be guard if all charges incurred and rod in one presidency on account of the army of another were finally tabulated and hought forward in the accounts of the actual paying presidency

The foll expenditure for the true of India under any parisonance.

3 The foll expenditure for the true of India under any patienter herd would thus still be accertainable but in it be decided that it is necessary to know exactly the expense of the many of any presidency, then this might be provided for by a separate allotment being made to each presidency.

for the psyments made by it on account of another

I consider that the offices of the ordnance examiner of Madras and Bombay, as also of the In consider that the offices of the controller scheme of Madrias and homora, as now of the medical crammer of these presidences, magith the annaleyments Bay, for instance, the medical recounts of Bombay might be audited in Marirs, and the ordranea accounts of that presidency be united in Nova and the funds accounts of the Bombay presidency might be put under the officer in charge of the occounts I runch of the controllers often of these presidency. By this procedure, the controllers of the ordranea of the occounts of the presidency. the pay of two commissioned officers would be saved to India, and I certainly am of opinion that the united offices would not overburden the holders

 $P \in \mathbb{N}$ was dely and multiplication of the replies to your questions, I have drawn up answers in one up-pure for all the three peacest pay efficies of this presidency in my own effice. The expenditure on account of structurery in these of each sy and all so an account of the presidency pay office, but have distributed peaking recept of the information from the statementy office at Bombay, will be minimated to you shortly, will be minimated to you shortly.

Major W Per esa Examiner Pay Department, Boming

- (a) At herd quarters—

 1 superintendent
 3 first class clerks
 4 second ditto
 4 third ditto
 - 6 fourth ditto 10 fifth ditto 10 copyists or computers
 - 88 m all
 - (b) Elsewhere none

The office is sab divided into branches -

- I—The Native troops branch under the supervision of the assistant examiner has one assistant auditor, seven examiners and calculators to such and compute accounts and dispose of all reports references, and correspondence connected with the payment of the Native army and followers.
- II —The British troops branch, for the mucht and completion of accounts, the disposal of all reports, references and correspondence of the British army and its followers: there is one condutor, one assisting analysis runs examines and exclusions:
- III.—The presidency prymatter's debursement referred theirnets, and contingent hill branches. The compilation and the pensor and price branches under the supervision of the supervision and the production of the supervision of the substance for the substance for the substance compilation of the presidency pays size a recounts and the accounts of the three pensors propasters, and the disposal of all reports, references, and correspondence connected with these branches.

IV -Two general copyists one indexer and one record Looper

Lecut. Calonel B B Yenng Officiating Controller of Mil tary Accounts Bombay (Pune on Pay Master's Office)

Presidency Carelo Rs l clerk 90 1 86 *1 40 25 1 30 Poona Girole I cleik 120 76 ī 60 11 ī 50 22 ì 35] 80 22 Sorther 1 Koulan Circle clerk 50 85 , 25 33 15

Their duties are to pay pensions, prepare the breessary accounts, estimates, and returns and to carry on the correspondence connected therewith

2

There are no clarks any loyed elsewhere than at head quarters

Major M. A. Rowlandson Ex amoute of Comm searnet, Clothing and Burnath Accounts Bounday There are, including the head assistant, 40 perminent clorks in this office, and 3 temporary extra clerks for auditing the accounts connected with the Afghan expedition

Of this number there are-

8 auditors

25 assistant raditors

4 calculators

4 copy ists

2 registrars

2 record heepers

The duties of the former consist in anditing the accounts of their ranges, and disposing of the references made concerning the same

Assistant valutors are employed in assisting the auditors in the exponentian of their accounts and replies to objection statements.

Calculators are employed in testing the arithmetical accuracy of all charges included in bills.

and vouchers attached to accounts &c Copyrists are employed in fair-copying all letters and statements

The registrats register all letters, bills, &c , received in office, and number and despatch all fair letters

Record Leepers file all papers and disbursament youthers, accounts, &c

Levience t W. R. L. Aciesson The following is a detail of the clerks and writers in this office, with in cleans Odine, Rombry of their duties —

Nos. Clerks and writer		Rates per m	OF PAY	Dates			
2102.	ciers and effers	Mini	Mari muz				
	General Branch.	Rε	Rs				
1	Superintendent . 5th class clerk .	400 40	500 60	General duties and supervision under examiner Care of records Registration of documents received and despatched, and			
3	Ditto . Copyists or computers Audit Branck	40 30	50 } 30 {	neperation of copies of audit statements, accounts, and conceptualence			
1 2 2 6 2	let class clerk 3rd class clerks 4th ditto 5th citto Copyrists or computers	250 90 60 40 50	350 120 90 60 30	Audit of indents of ordnance and military stores and equipments suits of store returns from arreards, depoits, and factores, from corps and army officiary, and from harrick maskes. Audit of reports from ascernig, depoits, and factores, of expenditure of materials and labor on manufactures, repurs, of the audit branch is divided into the sections excel of which is responsible for a particular portion of the sudd branch is divided into directly in chirgo of the lat section, and excusing general supervision over the other sections. Two of the subsolutants clerks are sometimes at woll in one and sometimes in another section, or in the general branch employed in copying, according to the particular of the control of the subsolution of the subsolution of the control of the control of the control of the subsolution to continue to the propulse of the section of the subsolution of t			
1	£nd class clerk	150	200	stores to menals depits, and factores The nobit of claims for purchases of stores by arsenals, depits, and factories The nobit of claims for extra artificers, &c., employed by arsenals, depits and factories The solds of claims for repairs effected to stores in use with the crumy, &c. The archit of claims for purchases made from annual guant to suppers and numers for field practice Mete —Thus clear also disposes of secounts of trans- citients with the Indian troop survee and of match- regions to transplant to troop from England, and his charge of the office stationary, and the office contingent allowance and prive and leave accounts			
1	Account Branch 4th class clerk						
1	THE CHISS OFFICE	60	90	Preparation of bills for hire of tents and stores drawn on payments, lost, &c, and watching their due adjustment			
1	4th ditto	60	90	Preputation of bills and valuation with accounts which concern other departments and Governments. The check and completion of estimates of, and indentates, orderines and military stores and equipments required from Digland by the inspector general of			
1	5th ditto	40	604	required from Dighaid by the inspector general of ordinance and insignances. The disposal of paeling accounts, invoices and survey and other reports in connection with stores sent out			
1 4 3 1	4th ditto 5th class clerks Copyrists or computers Copyrist or computer	60 40 30 30	90 60 80 80	the other reports in connection when seems seem out from Degines. The proportions of materials for reports, review state ments, and general returns. Assats in the work done by the cight clerks immediately preceding rod in the preparation of bills for him of tonls, for			
35	Total	2,070	2,790				

Surpeon-Major P S Turnbull at D Lytin net of Medical Ac-counts Bombay

The number of clerks is 15, and their duties are as follow -

Conducts correspondence, frames reports, tests nonmey of ill accounts Supermiendent and and t memorands, and exercises general supervision over the estabhishment, under the mimediate orders of the examinor

and class clerk

Prepares monthly accounts of vereipts and resies of modient stores from and Proposes monthly a count not stored in our series of modern's store from a not to drugs pertunning to early, mrume, and public works depriments of depriments of depriments of these presidency, and early and public works departments of Governments of Indry, Bengell, Markey, Central Provinces, and Hydeshold Aengoal Distrates, since quartely eccents of Her. Meyesty's Colomal Governments, Celon, Marathus, and Nea Szelnati, Governments of Crops of Good Hope and Giner, Impeand Governments, London, and Indian troop serince also balls on developing sease, sheel's warmed return of sung erl equipments of civil, marine, and public norl's departmente, also transfer acrounts on officers quitting India on leave, and

4th

conducts correspondence connected therewith .. Compiles medical state accounts, and prepares statement for annual teasew, prepries dita for and checks the annual home indent and estimate, picpares rate list of stores, evanances | acl mg recounts of stores received irom Lugland, and prepares short and duraged delivery reports thereof, examines tenders and contingent bills for stones purchased locally and munufactured by pacesa or , prepares statements of annual cost of stores supplied to en il charges for transmission to the deputy surgeonsmore suppuse to our courges to trustmess to use only surgeous general for financial typots, and affectioned of verenge ost of three years supplies to the missile dispersance, he, for lamped estimates, has supervision of the priving of vouders and mixed of the medium depth return, evenines the accounts of medium ediests, he, head in dringer the depth's surgeon general, Bengal mediand service, Benshry, for troop ing season, vendes statements of psyments made in Ingland on recount of medical stores, conducts correspondence connected with the

Analyte indents for hospital sumplies, or , brans medicines, hospital noces-suries, stationary, articles of diets, and extras, supervises the work of the commission at supply section, and conducts correspondence connected therewith Audits returns of surgical equipment of Puropoun and Native hospitals and reter any establishments, theo transfer recounts on officers quitting

5th

Index on leave, and conducts correspondence connected with his depuriment, keeps deary of kitters recented Keeps ledges of receipts and resues of medical stores and classifies medical stores supplied to and received from charges into Europe and India for compilation of general store account, keeps an index of medical officers proceeding on leave in and out of India also of those returning on peasees successful of establishment, and assets the fourth class clerk in preparing statements for review and data for home indent and estamate. &c

Assists in the right of the hospital diet rolls, and checks stimulants issued on indents for diets recording to scale of I propean troops, and examines wine expenditure, returns of Native troops prepares monthly and un-

5th "

mully statements of stundants assued to D nopern and Native troops, compiles annual statement of the cost of ducing Dinopern sick, keeps stationary and contagent accounts, and conducts concespondence connected with the above . Audits medical d pôt return meluding that of cutter's branch, examines

ŏth "

unnual stock taking of the modical depôt, also the annual dead stock return, and conducts correspondence connected therewith Verify the precing of indents of stores issued from and auturned to the medical store depole, has the home unions and figures required for extractle, at tements of lare kages part hale of medical store expenditions,

5th 6th 6th

stock recounts, schedule of differences found on verification of the stock of the del of, statements for runner! review, percent ges of difference between the rates fundered and invoice rates, also pricing rate list Price the above statements indents &c Assests the third class cleak is an liting returns of surgical equipment. and has the ere of the tecord of the mothers since section, also assets the cryptal nieu time admits, Longar register of indents of stores issued from and inturned to the depth and files them, registers amount rotums

6th

REN

of surgical equipment of military and eavil charges Andsts annual dead stock returns of Native hospitals, and conducts corres ondence in connection therewish, has one of the local of the commissan at samply suction, neglighting reachers grown in orders, brown ment Guester, do , assists the 5th class clock in propering of itements of the expenditure of stimulants, do , propers monthly pro abstance of estab-

6th ,

lishment Is copyret also registers and despatches letters and Leops the sorvice postage label account.

Locat Colonel D B Young, Officerting Controller of Vilitary Accounts, Bombry (Accounts

At head-quarters-1 head assistant

1 first class cler! 2 second chas clerks 8 third class elerks

fourth class clerks 12 fifth class clerks 14 unclassified

39 total Elsenhere none

The establishment is divided into three divisions, with one first class and two second class clerks as senior clerks, under the supervision of the head assistant, their duties are to examine all the cash accounts. accounts current, remittance rolls and other returns received in the office, to compile the corresponding returns and statements furnished from the office, and dispose of all references connected therewith

Capiam H. Cowper, Press dency Psymaster Bombay The number of clerks m the office as SS, uncluding the head clerk

I head clerk supervising the office

3 clerks, superintending the several branches of the office.

8 clerks examining pay lists, abstracts, and bills, &c

2 clerks preparing abstracts and making payments and last-pay certificates of officers proceeding to and returning from Europe

1 clerk proparing an account of other payments to officers at Bombay 1 clerk preparing cash receipts and banking transactions

4 clorks making cheques, transfer receipts, and their advices, on account of the several branches

2 clerks posting and balancing duly payments, also making payments of advances to artillery 1 clerk making psyments of all remittances to Bombay

3 cleals for compiling and totalling abstracts and balls (compiling branch)

4 clerks for prepring cash account and the returns connected therewith 2 clerks for registering abstracts and bills sent for and received from audit, preparing military

fund and house rent returns

1 clerk for preparing retrenchment, advance, and deposit accounts 1 clerk for examining Europe remittances, receiving, registering, and distributing daily post

4 clerks for copying, registering, and despatching daily letters, &c

Colonel J Tincker Superna-tendent Army Clothing, Bombay

As follows -

(1) In office and store branch Head clerk on Rs 175-

General supervision of the office, Leeps dudy cash book, prepares cash accounts, verifies all important documents before they pass out of the office

One clerk on Rs 150-Checks factory requisitions with the proportion tables, is responsible for the correctness of the personn' leager, the entries in which he daily verifies, replies to audits, propries the budget estimate, examines the annual returns of great-coats and cloaks readered by corps and batteries, and checks demands for those gaments examines, and is responsible for the correctness of, the annual undents on the home authorities

One clerk on Rs 95-

Propues the monthly and annual store returns, makes out bills for regimental necessaries and clothing supplied on payment, prepares sundry statements required by the Government of Indra, and assists in preparing budget estimates

One clerk on Rs 83-

Txamines all claims for clothing and is responsible that the indends on this department are correct and in accordance with the regulations before they are passed, prepares from the indents lists of the graments required to be prepared by the factory, keeps a register showing the clothing supplied, and for what period to each corps or battery, and to each individual whose clothins are made on separate indent. This clerk's duties fully occupy the time of two men, and he is therefore assisted by a clerk on Rs 58 as hereafter shown.

One clerk on Rs 83-

Keeps the store receipt and issue day books in which are entered all store transactions, and on which the ledger entries are based, assists in preparing the unnual indents on the home authorities, keeps register of sizes of boots received and issued, calculates and enters in the detailed statement of materials to be supplied by the store branch the various acticles assuable to make up clothing demanded on indents, checks the issues of materials from the retail store

One clerl on Rs 58-

Assistant to the examiner of clothing claims on Rs 83 side remark opposite that clerk

One clerk on Rs 58— Converts into Indian currency the English invoice charges for stores sent out adding percentage for freght and reduced the diagnost involve energies as some some one could be for freight and preking, calculates the cost per grad, gross, &c, and records the result in the "rate book", veries all calculations made in bills, &c, prepared in the office, and in the statements on which are based the annual indents One clerk on Rs 50-

Has charge of, and posts up, the retail and personal ledgers One clerl on Rs $10 \rightarrow$

Keen whole brile ledger, and the recount of stores asset from the whole brile godown, books from the maken's all clothing stores and regimental necessaries received from Lingband, as rets in receiving and a eighing consignments received from Lingland, and in comparing then with the proking accounts.

Assess the clerk on Rs 95 m preparing the monthly and annual store returns and bills for One clerk on Rs 41regumental necessaries and clothing supplied on payment the duties fully occupy the time of two men

One clerk on Ra 43-

Head copyrat copies compares, and despatches correspondence One clerk on Rs. 36—

Prepares pay abstracts, pays office store, and factory establishments, assists the head clerk in preparing each accounts, registers inward letters

One clerk on Rs 86-Copies correspondence, bills, receipts, returns, &c One clerk on Rs 20-

Copies correspondence, hills, receipts, returns, &e One clerk on Rs 20-

Keeps records and assists in copying (2) In factory One clerk on Rs 75-

Pays the weakmen issues garments to, and receives them from, the tailors, and keeps account of the work done by each man

One clerk on Rs 20-Assists in preparing pay sheets, and I cops doily attendance hook Besides the clerks commerated above, the following are the cuplopts in the store branch and

factory

(i) Store branch Store I seper on Rs 100, exclusive of pry of rank as conductor, in all Rs 200-

Receives and surveys stores under the superintendent's orders, has charge of all stores and necessaries recurred into the department and issues them to the furthery or pecker as re-quired, on requisitions passed in the office, verification by the furthery or pecker as re-quired, on requisitions passed in the office, verification buy entires in the day books and retail and whole-bite ledgers superises the preparation of annual indents on the Homo some and variations energies superies in preparation we entain meeting on our fations.

Government for clothing materials compined and appointments orminges for the provisom of helmeds for temps retruing from Langland, excesses general supervision over the
retruing and proling brunches, drifts correspondence connected with the store banch
Recurring majoritor in the 60-

Records made up garments from the factory, and laceps a register of such receipts, compares size tickets on the garments with the size rolls received from corps, lays out garments for inspection by the surveying efficer, makes them over to the packer, whose receipt he obtams

Head packer on Rs 46-

Supernitude the packing and despatch of all made up cloth og, materals, books, and neces-sures comparing the quantities with the package lists and statements prepared in the office, property introdes interestes to the commissional department when pickages are ready for despatch, sends advices of despatch to corps and batter es, &c., I ceps registers of all clothing, &o , received and despatched, and of all bale wroppers, empty cases, &c , used in packing

Inspector on Rs 30-

Receives and conveys prekages of clothing, boots, &c , to the commissionat department, and to corps and britteries in Bombry, reserves helmels as they arrive from Meetut, and stores them in the helmet godown as responsible for their condition while in store, on the arrival of each tacopship, goes on board with sufficient helmets of each size to fit the tacops, assists in copying

Assistant packer on Rs 25-

Assists the proker generally, and in the preparation of invoices, letters of indvices, &c Mastrie on Re 15 and compensation for dearness of grain-

Assists storckeeper in issuing materials to the factory &c , from the retail store (n) Factory

Muster tailor on Rs 364-Superintends the work of the factory, and leeps muchines in working order. The minimum is Rs 310 maximum Rs 400, annual mercase Rs 18

Assistant moster tailor on Rs 120-Superintends the eitting branch

One head ma stree on Rs 58-

In charge of the factor, store, and accounts for recupts and assues, frames requisitions for materials required from the store branch

Exammer of clothang (surgernt royal artillary) on Rs 20 exclusive of his regimental pay-Superentends the examination of all clothing made up by the workmen before it is passed, is assisted by---

1 resistant on Re 41, 1 ditto , 15,

and grain compensation Section superintendent on Bs 45.— Superintends the machine workshop Section superintendent on Rs 45-Superintends the tailor s workshop

Ironer on Rs 20-Superintends the moning

Trunmet on Rs 17-Serves out silk, thread, books and eyes, &c , sufficient for each garment, according to tables of Two cuttors on Rs 12 each and compensation for degraes of grain; ditto,

Two ditto on Ra II each ditto. Three dute on Re 10 cuch

garments Turnace-man on Rs 19-

employed in cutting out

In charge of nons, keeps up the fires, is responsible for putting them out when the work is

The above shows the fixed establishments

Machine drivers, basters, and extra cutters are employed as required. The handwork is done on the premises by piece workers

Brigudier-Ceneral H F Breeke, Adjutant-General, Boustay

. { 17 clerks At head quarters 7 writers Elsewlere

Their respective duties are-

1 Chief Clerk -General superintendence of the office, and has charge under the adjutant-general of "A" branch correspondence (vide reply to query 1)

5 Head Clerks -- Have charge of branches under their respective branch officers (sale reply to

query 1)

11 Clerks — Assistants to head clerks in the general duties of their respective branches

7 Writers - Employed as cop ists and distributed amongst the branches,

Bright or General G Barrens Conster Master General Humbay

All the office establishment is at head-quarters, at consists of 17 clerks and three distinct. The duties are as follows — Chief clerk, in charge of the working of the office generally, opens

all official covers except such as may be marked "confidential," and has the custody of confidential papers

The correspondence and work of the office is divided into branches as follows -Subjects dealt with

Clerks One juntor } Tuo semor ? One junior j

Accommodation, public works, fortifications Curringe, field operations, movements, passage, transport, Budgets, conservancy, cantonments, departmental, santa-

One senior } tion, writer supply One senter ? One juntor |

(All subjects pertaining to burnel department supplies, also examines all documents before they leave the office

Three draftsmen) One paceeman

Mays, plans of contemments and military buildings, survers, encamping grounds, routes, lithographic press.

All subjects connected with the corps of guides. Registin, and in charge of the record rooms

→ One parmor a One panior, pay clerl

Ditto, Commander in CineTs schedules, and corrects copies of regulation books. These men are also available for any work in * One pumor, returns branches, and have copying to do Parec d tto, copy ists

C lonel C O Marle, Judge-Adrec to Ge ural, Lesua

Three Native clocks at head quarters. None elsewhere. The deputy judge divocates l'ave pravite elerks

The head elerk assists the judge advocate general in matters relating to courts martral, &c , the second clark conducts his duties under the orders of the head clerk, and together with the third clerk enters reports letters, &c, in the office books, and prepares all monthly and half-yearly returns, and all papers connected with the office

Monorard-sith reference to quantions gut by the Imperial Generowood for report voluntited with de-frace for the constitution of the Commission by Maron Grass to L. Sinsarins, Benjal Staff Corps, as I the Political Resident in England and Gouding-Added 4th Angul 1879

I What must be of troops Bestish and hat we is strated only be mounted in Indianal of time for the maintenance of the net real per could be country and perform ance of t real every materion distinct order

Which do like the durinfram of the fore lite property in a linkerned to the first property of the literate to the first property of the literate p 2 What sho 11 be the distribution of that

1 This point will doubtless be maturely considered and correctly determined by the commission, assisted as a will be by the safisties at hand and the special nowledge of the he quarter-master-general, and the who are members of the same

2 The only remark that I shall venture to offer under the head has reference to the arming of the local police, as the first mis reterrors to the military garrison required beaung on the question of the military garrison required On no account; and I allow them to be equipped with fre-arms. It is not the policiers werenon in itself that strikes terror, but inscauch as it is the simbol of authority, and for this purp or the constable's staff is an effective as A for this purp of the constraints some is as the title is a grun. The staff can only be used in the pre-refusor of order, the gun now be used agrunt us. On the rising of the Neemach brighde in the mutins, the police of the Yawad-Aemach district to a mu poined the mutineer. After the recovery of the station and re-torsi on of order through the

[Appendix IV. (1889)

4 First, (a), by remadelling the Native army so as to

Nature levies of the Odeypore State, the superintendent rused a fresh body of police. On a second waves across on the courty of the country ander the Delin Prince Peroze Shah, the new police again wave or remence surging out the eventty mass: the frem cross remote onan, has new pointe again to a man passed the rebels. If a strong band of robbers has to be dealt with, call out a detechment of to a man power one received in a strong range or recovers area to be used to wrote can our a concentration the military. But a large body of armed police diffused throughout India, without multipary organization or deceptine and subject to sunsider local influences, 18, I thunk, an element of danger to be guarded agunst in the contingency of our power ever being seriously threatened from any quarter. 3 See remark to No 1

9 What she tid be the full war establish most of the Indian army, calculated under the

ment of the framm active, sectioned in the acted of the number of froops that Indea ought to be able to place and manufain in the field for service absences required (b) the garrisons and reserves to be main tained in Indea?

I By what means sheet of permunandly maintaining the army on a war fooling can the difference between I and 3 to most effi-mently provided for?

provide for a system of depôts and reserves, and a change in its officering, both European and Native Second, (b), by taking note of the aggregate number of Native auxiliaries, lieng feeled retaines of the Native chiefs which could be comised on for co operation with our many or field service. Third, (6), by effecting a large retainton in the organized generating united some of the Native princes comprehending virtually their extinction.

The first object, (a), I would propose to attorn, having regard to the encumstance that the sepoys no mestly of the agrantism class, though the medium of regiments of three heatabons, of 800 rank and the each, all resunted in the same district from which the regiment would take its territorial designation. One heatabling in territorial designation. One hatabling in territorial designation. half pay, and would not as a depot for recruting and faunishing men to fill vacanous as they occurred in the service battulous. After fifteen years' service, men to be placed on a reserved list on a low provisional pension, but to be held hable during the ensuing ten years to be called up, on war breaking out, to serve on garrison duty

The European officers present with the hattalion proceeding in its turn on furlough, with the exceptoo of a commandant and adjustant to carry on the deplic dutes, shall be placed on half pay county with the men during the tremain furloogh period, and allowed to pass the tune at home or in India at their option, indicements being held out to them to stay and settle in India by grants of land on

The Emopean officers of each battalion should be increased to twenty-five in number. Retaining with the battalion on duty with the colors an equal number of officers as now serve with the Native regiments and on equal pay, the remainder should be eligible after four years' service with the regiment, to be district off for the executive duties chiefly of the civil administration of the Government, on qualifying examination, the judicial offees being filled mostly by Natives—Such diversion of inditary officers to card employ to be on the understanding that all, as a rule, should region the colors of their regiments on war breaking out the exceptions in respect of absolutely indispensable British meanibents of offices being so few as practically to prove the rule. This would provide the reserve of officers to meet the contangency of war, the want of which has been felt by every commander in the field, from Son Chairs Name at Mosance downsards Thou rule would go on in their regiments, they would guide subscribe to all its metatutions, band, mess, &c. And ofter their early regimental training they would report for service with undiminished zeal and efficiency, looking upon their regiment is then heme. They might be permitted in certain proportious to join the periodical camps of exercise to keep almeast of their profession. As a matter of experience, some of the ablest commanders in Indian wars have been officers Protessing As a manuscus experience, some one of many and employ.—So While Gibbert and obsers The untradiction of the system would enable the expensary covariant element in the administration to be gradient untradiction of the system would enable the expensary exviain affected intensit in the administration to be gradient produced by the deciment, it was the protected efficiency. The administration of the non-regulation provinces through unthing the protected efficiency. The administration of the non-regulation provinces through unthing the protected efficiency. The administration of the non-regulation provinces through unthing the protected efficiency. The administration of the non-regulation provinces through unthing the protected efficiency. could be no question

The proposed change would facilitate the gradual extinction of the cumbrons staff corps with its rank and file of field officers—in moubus which Government has been endervouring to get rad of by

various devices A place for some of them might be found in the reorganized army

Interchanges between officers and men respectively of the several battahous to be permissible. not compulsory

As difficulty might be apprehended under the present system of competition in filling up approradely the large number of vacamers to complete the Native regiments to the proposed strength in Laropean officers under the revised organization, let the nominations of cadets be made direct from lome as formerly, subject to a qualifying examination. A standard of competency being fixed, the nomnee system would afford gunantees of character and conduct which are wanting under the comnomines system would make a common and nomine would be under the silitary restruct of February system, assumed as both nominitor and nomine would be under the silitary restruct Notices chief. The paleoxy on the part of the public which swept away the nomination system was an unworthy and, I silomit, an unreasonable distrats of its public men. I would address my

are an unworthy and, I submit, an unreasonance mature of its paulse men. I wount authors my feiler county into from a statepoint above and beyond the sphere of party or interested unknown. You entrust your public servants in high places with most important articard conceaus, with making over feetings with fronger powers on which the unional grevitiens or commencial prospectly depends, and yet in a matter of conceate patronage you will not trust them to act for the public good I Ponder on the port's improved line. 'Trust me all in all, or not at all.' If the time should over come, sould case it—is time, your public mass belong your trust and you can no longer confident them, it will time bir you to this the management of your affairs into your own hands.'

Apart from the general considerations on which the expediency of a reduction of our European gumeon in India is indicated, the same having reference to the largely reduced strength of the Native army since the muting, to the withdrawnt of our artillery absolutely from then hands, and to the decelor ment of the radway system in the internal —the measure might stall further be facilitated by

forming an Algere, for our Native army with which to interchange thoops for service penoducally. Within our own dominions, the remote stations of Burnar, Adon, Assam, and our nearly acquired possessors on the north-west frontier, immediately occur. Aboved, the West Indice, Zahulund, and reentually perhaps Adyssima, should possible political changes in that country favor the restoution of the young prince, Theodoro's son, now our profess in England, to the Abi-ssmein throne Again, on the young prince, accounts some or our prompts in the prince angular through age for the great planes in the possibly not render future, and will again prehips, as of old, prove an Indian field Some of these countries possess in their population the finish is we rateful in the word, prehips, for troop So long ago is 1816, Colenal John Starbardin, formally Agent Gorean of-Generi in Rapportina, pointed out the Keffin's from present Laordeige as entimethy suited for our value. Trumby but, and foregat troop a could constitute in perceived index as useful constitute, as Truned by us, such foreign troops nouted constructe in personal accounts as it might be deemed own Nature army, to be rehered from time to time by such of our regiments as it might be deemed expedient to send on foreign we were for a time. Because the such of counterpasts, moreover, exist, the such as the expedient to send on foreign we were for a time. Burourble elements of counterposis, moreover, east, within our on absorse in the several organ of obsergance seatfered throughout the country. When officially imagesting the Meywar Bheel Corps in 1859, I took occasion to point to the policy of encoling a proportion of Blacks in the rails of our Nitrio emily, since, as I observed, the distinction which good soldness of this security contented mes could receive samply as record for midstary ment; would reach larged accurate in our rains that distantions of oxed dath out other into the composition of a disemplied soldner whose largests religious should be his multity duty. In taking oversoon to interest, after the multity, to my neglected varuing; I submitted whicher, if the Bheels and other shortgames laid been caused at that early day, there might not have been found in every agament; for furthful among the furthfules to wirm our officiences of the impending danger. The displotant of each a system might enable our Disopron gainson, as above remuded, to be considerably reduced. Divide et uripera

Native commissioned and non commissioned officers should be appointed to their grades direct from the rinks of the handed gentry or other respectable dress: This would not be intended to acceled from promotion to the non-commissioned guides my privates of exceptional menti, but, as a rule, the prespect of such promotion on enlistment is too remote to be talen recount of by the a rule, the prospect of steen promotion on emissiones is not remove to up a cut recount on up to exercit, and consequently the change would up practically affect the class of recent obtainable under the new system. The visatingle to Government of having in its employ as high a class of intelligent the case of the visation and many might expectedly be extended by offering emissionthy indirections of the first section of the most of the visation of the product of the might relations of which they would be the immigracy enterthines needing the content to the other to the content to the content to the ministry individuous of which they would be the immigracy enterthines needing the content to the other to the content of the ministry individuous of which they would be the immigracy enterthines needing the content of the ministry individuous of which they would be the immigracy enterthines and give a content of the ministry individual of the content of the ministry individual of the content of the ministry individual of the content of the ministry individual of th

ounger risk as they came on, from trane to time, in successes to thethese of recently some time.

New Darsern onjet wherever these class may be found in sufficient numbers and valling to earl themselves. Their necessary identity of interest with the Dritish governing class, their courage, their intelligence, would constitute such corps important factors among the elements of counternoise

above indicated

The question may arise, is conscription suitable for India? Considering the vast diversity of mees peopling this continent, from the most wallike and hardy to the most opposed to and physically moss populing this continuest, from the most a militie and handy to the most opposed to and physically multi-few ray, it would seem but recornible this, uplue the former continuals their quote of cedes to our runks, the latter, who decline to resust in protecting the country, might be called upon to pry an anomematy to be subsided from the conscription. The aggregate amount so occurring from the non-combatinit pation of the 200 millions of the population of Light, even at van infinitesimal rate of animental, would be very large and og for to recover just while amount of the varye estimated to the second bend (0). Here the Nature retainer contingents only fold off to the different States seconding to their caption) is most ofference specially deputed, who mould report to Government the aggregate strongth of the number of root that might be thus counted upon. Cancer only with this measure,

and in full reliance on its efficient for the maintenance of order within Rappoetana, after all the regular and troops and been eliminated from the forces of all the States, the British toops stationed there, comprising three bugrides, might be wholly withdrawn and the strength of the army correspond-

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there, companies more and any with the organized neigency forces of some of the Stites (third herd [6]). The dang any with the organized neigency forces of some of the Stites (third herd [6]) might expectedly be negeorated by the same officer, one specially deputed on these difficult and deheats duties being multipartedly. Those of Sandar, Holler, the Nixam, Cashmere, Kathawar, Olds part, Jergen, numeduledy occurs decreatedly as early stetchnic Spraking from an equinity sees with Makarray Sandar so presumably intimate and confidently that on having to kind for his herdth duting the first met of the West Rasident at Grador, Jis Highness made over the charge and the state of control of the Gw ther State unreservedly to my hinds, weeling and obtaining the formit emetion of the Viceou to such an exceptional delegation of his authority as ruler to the British representative at his court, -I think I can venture to say that the object in view might be effected in his case by delicale negociation without causing any jar or leaving any unpleasant impression

5 Has ng seg rd to 1 3 and 1 what must be of troops must be kept permenentis under are s to cour on the coultry in percet me and I must be not seen factors for war and r lat country them to necessary sathen nitate compen.

5 See remark to No 1

If As in up that the Pith biforce row in the construction to be reliefly confluenced of it in about the light distinction of the construction of the construction of the construction of the construction of the light of the ligh

(1) by enlisting recruits specially for service

If the (1) by conductive the contract of the c

large proportion of the regiment volunteered to surve on in India - Judging from the experience of the large proportion or the regiment remains on early on in the sattlery bands, constraint on long Indran server old forth European army, especially in the artibley bands, constraint for long Indran server might be expected to attack a far supporer class of recruits than obtains under the p cent sho t angelt be expected to various. A car suppose rises of recruits than obtains under the p eemt shot is service system. I make no recount of the chapter supposed to be inherent an the old system as allow-terful by the "White Metrup." That intervoor's event was samely the consequence of Immediatel mean-suggement on the part of the authorities an attempting to enforce a change in the conditions of the most service on there dectain of the "Law officers of the Crown". Indeed of which their leythy beam appelled to, and a bounty official to fund, the Queen's health, we should have heard nothing of the "White Metry".

The less free and relets of regiments under the molecused period of Indian service here advocated would admit of the abolition of the present costly system of troopships, recourse being had, as former would admit of the abolition of ly, to the open market of the mercuntile marine, as occasion area, from time to time, at diminished ry, to one open man Indeed the existence of the troopships prevents the development of the mercontile manne into an efficient transport service to meet the strain of possible war, and which the thoopships alone would not be equal to In their place, the whole mere utile marine in castern water. whether belonging to comprises a individual-, and especially the subsidized postal lines, should be put into requisition, the latter directly and ordinarily on an enhanced subsidy, and styled the postal inapport sources the former or the general marine, should be murical to tender for it unaport, con-ditional on contingueuss. All ressels so tendering to be registered in namife detail as regards or practify for trunsport of men horses, gams, elephants, &c , and written contracts as to rates entered into By such a system, Government would know its transport resources in the event of war breaking out, such a system, to remnous a cuta more us tumped restricts in the event or wer breaking only, dail modall chails to and itself of the same at ordinary reless unstead of monopoly war rives. Such an effective demand, moreover, might be expected to call undo excitace a clear of vessels appearing adapted in the service, controvings to explicate legglit severe clacks, plottoms fitted with Intereloits for gens, and suntability for leving converted into horse and multi strangests, i.e., for, the struce to be there up only on house required. Such observation and the temporal to the lightly in comparison on the sum; estimates, and a tall events were under outside. It is the devel-weight of an enganged on the erm; estimates, and at all events are more centred. It was the devid-weight of an organization establishment even with a taskers, to concessed cost, that we start upon the miscouse with the trightly of a cost and ground;—priced at good effectively on these of constant proble—priced at good effectively on these of constant related. The promptle forms moved est applicable to continue rull bumches of this public service which I shall be prepared at proper time and there to many, and furnals examples in albitations. I will be prepared at proper time and there to many, and furnals examples in albitation. I will be prepared at proper time and there to many, and furnals examples in albitation. I will be distincted by the amount of the protect depth expenses of a like number.

of regiments. It would be in a great measure negatively interesting the violenteers from the line regiments returning to England from time to time in ichef. One of the fundamental conditions of its reconstitution as a local army should be that it would be available for service in all parts of the world on emergency, that it should be a body of pioneers available for working on reads fortifica-tions &c. Schools in the hills for their children would farm the germ of colonies, and weste lands being allotted would gave them a local habitation

In the foregoing remarks I have restricted myself to the consideration of the money economy view If the concepting contains a rest reservoir in special cut are consumerate to be among country your of the question, "so between long and shot leaves on the Intropers makes in their conspirative buttlem and the Intituta finances." But, considering that efficiency in the rarry, at whatever cost secured, is the trust exceeding, I would remain, on some of the bey subduct regiments I near with in the field labely when preceding to the front as trupps which the Government of India might reasonably diemer to ix saddled with An merage age of 20 throughout the ranks meluding non commissioned officers, and not a man in the regument over 25 years, renders apparent to the commonest new professional understanding the defects of a system that could place such regiments in the field for hard netwe service. Play cally, what reasting etumum could they powers? Professionally, what training, in the sense of they can, young consung common control way process.

In many such arithms on by the transitions of which they are the firing representatives. What saintry indigence in main respects could be just occur to an actived to derive from the non-commissioned others had no five years if a full his addre, and equally are. I forthest to distinct and I saw and quithered in the first, nearly recenting the sterme impression it under upon me of the recessity of a change in the system of approximate. Whether the object of committing a sterme from the section the system service system might not be secured by extincting the period of service in the secure from 6 to 12. tens and the minimum term of enlishment to 10 years with inducement to re-engine it will rest with the commission to consider. Most especially should exceptional inducements be held out to ann-commesoned officers to contains to serve on for prolonged periods

- 7 What should be the ten stonal organ to to and days on of commands and proport on of a person effects and staff?
- 8 What units of organization for field 'crives seem best suited to the is alcondil one of lad a swarfare, and cus ties to mapfiel to or or neeted with the territorial organiza ton as in Europe?
- 9 Is a describe to menture the presidental names distinct as at present, and a will be a fine a fine a fine and a surface departments now mentals and a call to the eliberary of the time administration under the present president all system?
- 7 See remark to No 1
- 8 See remark to No 1

9 This would appear to be but part of a larger question myolving the contamance of the minor presidencies, but if required to be answered with reference exchangely to its military aspect, it may be conceded that it is not desirable to

was abundance under the resist pre-ion at statum? I manufacture to president of a mast desirable to manufact the president of a mast desirable as af present. In adolables, forwer, the minor presidental many com-ments, a might be found expedient, in order to obvirte the preside measurement of the additional pittonings long through evolution who, speed by selected, "about he worder of a break it purify on generals of dursion who, speed by selected," about he worder of a the president as maintary power within the entries of their furnisopy commands. Animations to maintary staff

(IS12)

appointments within the division to be subject to confirmation by the Commander in-Clief in India Amminitions to political appointments, in the local political corps and others, to be subject to con-

Appendix IV]

firmation by the Vicino;
In order to enable the Commandes in Clinet to exercise importially his increased powers over the In order to enable the Commander in United to exercise importantly his increased powers over the presidented turns, his head-quirties should not be fixed, but he should be required to more the sense from presidency to presidency to become commanded with the country, its remes, and its officers Agems, his Precilience's head-quirties staff should be appointed in the proportion from among the officers of the minor presidences. These provisions might probably compressive the not unnuteral learnings towards presently, known embeddess for appointments on the part of the dispusses of privilege of the minor presidences of fur share of www, such granties might obtain for the names of the minor presidences of fur share of www, such granties might obtain for the carries of the minor presidences of fur share of www, such granties might obtain for the facility of the foundation of arms for the child in the foundation of arms for the child in the contraction of arms for the child in the contraction of arms for the child minor and the minor of the contraction of arms for the child in the foundation of arms for the child minor and the contraction of arms for the child minor and the contraction of arms for the child minor and the contraction of arms for the child minor and the contraction of arms for the child minor and the contraction of arms for the child minor and the contraction of arms for the child minor and the contraction of arms for the child minor and the contraction of arms for the children of arms for the children of arms for the children of arms for the children of arms for the children of arms for the children of arms for the children of authorities from the too oft ruterated charge of partrainty in the komutom of armses for held service. The abolition of the presidential commands would of course cury with it the abolition likewise of the local aimies' head quarters staff, such as the adjutant general, quarter-master general, commissinggeneral, &c , to the lutther relief of the finances

general, s.e., to its internel recurs or the services. The intervent gener there growed but to be piroted in the lends of drissional generals would be but reverting to the system which has been found to work so well in fariner days as in more resemble. Livingble from both periods absumed General St. Divid Obtailanty, General St. Faither Wellesley, oftened Lack Central St. Author Wellesley and othus in the pret—Brighten-General Brighten Central Lack Central St. P. Author Wellesley and othus in the pret—Brighten-General St. Henry Livingook, Exclusional General St. Paines Outering, Brighten General St. Richmond toerer on nerry juricence, inclusion to entain year on and off our superior or consist of inclusions and office of the increased effection required by the operation of power, military and positions, in one and the same band effection required by the operation of power, military and positions, in one and the same band effective required to the position of the posit on reland in the midst of an ocean of troubled waters. It is as so in the multiny. It may be so, initiative in lands again. The necessary assumption and fearless disclarge of absolute power by district officers, soldiers or civilians of the antique type, was admitted by all observers of the outside world to have been sources to evenimes to an active type, was summonated that cases. In older to legalize thin, and audientify the mental time and the properties of public effects on energencies, seekel commercially by radequation, the inertially stemmed action of public effects on energencies, seekel commercial the properties of the p supreme power within their circles in the event of contingeneses Sir Henry Luwience, it is under control ports natural time traces as the critic of contingencies. Set Interf Learning is to that did the the recession of contention General mass posses on when the died. He had husself delegated, by drug testament, his supreme surhoutly in Luci now, multivay and political, to direct links, although justice to others in the greater. In a beloising then the more recedurate commands and supplementant their level suthering by placing more seal power in the lands of others commanding in all metals give of this time, it might be was to provide agental all possible of others commanding in all metals are of the states, it might be the to provide agental all possible and the seal of the commanding in the state of the states of the states of the seal of the sea eventualities by the above provisional measure

Should the troops of the several press 10 Stonds the troops of the serveral pressure of the own providences only except when called out for war, or should they fall of a recognized share of frontur and other general abilty the

10 Should save in their own presidencies, except in exceptional cases where it might be deemed advisable, in the interest of the State and for the benefit of the regiments but I old as belongger, we have right over it forwards

of dender, an other genome shelp?

contact—sk, "we mare there showed "a suggested as No. 2. Some columnity, broops should seem on these own presidencest,— its with a view to exact sensition the columnity, brough should seem on these own presidencest,— its did not similar of the more period de-eliquenced of the derives one should not some of the state of reculs of the purel, in this battery, by soccess the lift froze, first in advance of me options of the reculs of the purel, in the battery, by soccess, the lift froze, fir in advance of mp of our other artiller) lattery on the "detachment system" in the field, which of comes goat at a greater commond of horse power. It was horsed, moreover, by Atales, pure or Galf. Again, Malcolm's charge with the Sind horse, in the same buttle, was one of the need brillmint. in the day. In the late war, the Mairra's supers brace and would be the front. The Vhantrant buttaben affording mother straing matures. And the 3rd Sind house in the uffer on the Helmand during the late war yet another, by token of the loss of the lamented Reynolds, who fell while gullently bound us the way per mountry by dones or me greece are members. On the Bengel side, on the both rand, belong his men to victor 'quante for overhelming muchase. On the Bengel side, on the other hand, the fests of individual gallatity on the part of officers and men. Duropen and Nature, used with the cyclost of their come das in the size in pecial case. The chair sides or all humaried Bettyle, Cook and his gill his Good laws, whom I withseed never to the Victory. Cross at the hand of their Commonder Ser. I Robots: I have been a law of the commonder ser. I Robots: I have been a law of the commonder ser. I Robots: I have been a law of the commonder ser. I Robots: I have been a law of the commonder ser. I Robots: I have been a law of the commonder ser. I Robots: I have been a law of the commonder ser. I Robots: I have been a law of the commonder ser. I Robots: I have been a law of the commonder ser. I Robots: I have been a law of the commonder ser. Sir I Roberts, Higgmoon and Compbell in the Thell-Chottalt fight,—the Revd Mr. Adam scarrying orders as 1-D-C in the thick of the Pennin Kotal assult, &c

In this can lettle, more ejecully where their boundaries run conferminous with foreign territory, it would be the dury of the division of the boundaries run conferminous with foreign territory, it would be the dury of the division of the boundaries run conferminous with foreign territory, it would be the dury of the division of the boundaries run manufally required the property livelily and politically, so that, in the event of histories breading out, they might be prepared to seize at once on strategie positions, and create diversions by political combinations. A proportion of the troops in cach division to be hild fully equipped with their war complement of transport. Such a street of watchful preparedness would seem but a natural corollary to the propo ed reduction of the muther of men in general, so that we might come to find that true economy consisted, as was well put

Il Hating right the allershess made or car first I induced the sea of our from the parties with despite to mare the lamps through the contents pre-infulny, or to I important to the cuter the eries of the Comments of the Comments of the Comments.

To be placed under the orders of the Commander-10 Chief in order that it in it be brought under the same nult-ters organization as the rest of the reorganized arm. By this measure, the efficiency of the frontier force would be increased, and certain exiting anomalies in respect of ordinary multary rules and usage he redresed. A division of the frontuer force thus roogenard, horse, fact and gaus, fully equipped as a more tible column, to be retained under the orders of the early power for the true quincrions of the rectified fromtes through a general dier separally selected by the Venery and vested with till plotted, arthority in and over the A now and Ahyber frontiers so as to throw the high test of the Trich with the turbulent. The state of the Trich with Musecura, Allabarras So, Se moder one and the same controlling pull onty. On the reclumation of the border tribes and the attrement of order on the horder, which might be accomplished on the lines of our successful operations in Raynutana over once couldly turbulent tribes Blucks, Micross, &o &c , this division of the frontier force to revert to the command of the Commander in Chief for general service

19 Are using that Sind a to be annexed to the Panyth shold the Sind regiments remain local zed no at preport and under whose com-mand should they be placed?

12 Should remain localized and he placed under the command of a general officer vested with full mulitary and political authority on the border as Lord of the Marches, under the general control of the Vicerov

13 Is the present organization of the amp ply and transport departments of the army that best rules ted to its requirements as peace. and are or tre any changes descrable and if

13 The two departments, supply and transport, should be separated the supply remaining, as at present, under the commissariat which, as a supply department, has proved in the recent campugn as the Indian commissariat has always

been known to be, equal to the occasion the tausport to be placed absolutely under the nultiary authorities. There should be one head of the tausport departpincest unsquarry amount in commercy assumptions of director general of it asport whose pince should be ordinarily at army head qualets. Under him would work a staff of truspost officers, one in each divisional circle of the arm), and under these aguin a permanent staff of warrant officers. To each ofference more of the rang, and somet time eight a permanent sum to warrant stimes. To consider a divisional ances should be allotted in peace time a proportion of transport calculated to equip efficiently a strong brigade as a moreable colline. This transport would be used for the periodical relief effectly a survey origine to a newton, on one and a newton would be seen personnel to the tooks on the drivent, threby obtaining the oppressive requestions for this purpose on the oppressive requestions for this purpose on the oppressive requestions for this purpose on the oppressive requestions. periodical marches in rehef would go fai to recoup the cost of keeping up the pc minent perce estab-

On war breating out these divisional transport trains would form the nucleus for expansion to the requi ements of the whole division. Divisional transport officers would a fount to the director-general estimates of the additional is insport requisite to equip the whole division and it would be stacktoned essentates or the reminister or mapping requirement or eguing one whose my new in you are the state-content according to the strict war scale. Volunteers would be called for, an officer from each corps, to serve in the sooming to see account seems voluments return the current art, are outer atoms cannowing, to seaw in the trapport from an able ablest, resteld by one or more of the parameter variant officer staff, rould be consigned the proportion of carr ege due to the corps on the semi-condect scale, and he can be responsible for it always under the general responsibility of the commanding offices of the corps is repossible for it charge under the general responsionary or the communing officer or take errors, but such as present or the proper of the a regain come of peak out. The total year or knowledge or this essential requisite on the purrous officers in the late was with occase on any annule losing residued useless from galls. I had the shiving recently, in passing through Eural Product on you've to the trank, to see the new forms of a factorized pain latefacts of the traps in the late of the control of the late of t equipment, we came an ownerst you came annex and source in community and so and now no source in the size, on their part spain, sounced to know all about it, having been excelledly trained under Major Kane's judicious system of combined kindness and firmness. The celerity and six utness, con-Junys name s journous system or continues an interest are interest or in the second of routs, and span discussioning of routs, and span discussioning re-located and recupied column of routs was most admirable

becomes than resulted command on, from the most constraint.

Another point of deals, let or of or protected importance, as the pencioning of the mule attached in staffing and usualfuling, and generally separing and re-arranging, the pred-weedline and of a part of d a gaz. The case to the heavity break the saving from gulling in laring healty beld on of merossed pay, & to the unite attendants to learn the business Inducements should be

due on the monutage pays, as to see must annotate to see one to the community of the transport from The Dec retirement, and should deall times be provided for the animals of the transport from The absence of all administrative externary control with the several columns lately in the field led to absence of an outming-trace reservant, contour was now several common many in two near not no region and malestomets of the namely which was probably in a greet measure the cause of the heavy less that we seek unsel. The fact of these heavy, been no administer two officer in any of the columns would heally be colded. The subject of veterinary odministrative and exceptive other

tent once occurred to a must occur on communication.

The commissional deput famili should indent on the transport train for their requirements which and commensus upon uncan move a mention of the office commanding the face of the commanding the commanding the face of the commanding the com

form:
One superioral tion of supply might most expediently be had upon the commissions, as , forage
One superioral form of supply might most expediently be had upon the commissions, as , forage
The many time most all breach it commissions of the present system of regimental gives entities. The many One unperiods from at supply magne most expensionary so must upon the commerciary, n., torage of the no stated brunch, it suppression of the present system of regressed is runs entitier. The improvement of the runs proposed to the runs proposition throughout our long estible distincts by the improvement of the runs of the runs of the state of the understood by the control of the runs of the runs of the understood by the distinct and understood the runs of the runs of the understood by the distinct and the runs of the runs of the understood by the runs of the runs despets aftery between the so o crosses: zero only are non-passars (non-see van lot use those cause introde) upon and cut without pryment or compensation, but often are modelled upon a deservation of the control of t right, to an first popers on is cause in total expensive source season of generating course course, one trade over for the use of the mounted branch by the Native government through the good offices of

the political officers, or again, in newly cettled British districts after conquest where waste land is plentiful. But to permit a continuance of the system in our old settled districts where the sent promises the personal commencer or accessment on one severe customs where the seven partiage is their personal on a per by yer by unitation and the village cettle fest without a spare road of gruing fertimes the tentile less of cettle in ever season of drought) would be to perpotent at once a great career of hydriding on the rural population, and be found to react most injuriously, through the less of plough cettle, so the Government revenue.

It is true that to all entiry stations a tract of waste land, called a ruck, is attached for the use of the mounted branch, but ordinarily it is at so great a distance off that the grass cutters cannot make the journer going and back, and cut their griss within the same day. They he consequently under great temptation to trespass on private lands nearer home the more so since the ruck when reached affords but poor forage, being generally the worst but of waste had in the district, unsuitable for

cultivation

This subject has I behave, often been brought before the authorities, and the erd of the system and non-ledged but its retention has been ministaned nevertheless on the one vital ground of its relacation necessity on field error. This is preservely the ground on which I propose to show that the system is not only not necessary but on the contrary an impediment and an obstruction to field operasixem is not only not exceeded to use us the contrary as anyocuments act an objectivent to the adjoint times in un energy country. The theory, such of the piglet to rest after marching, we harssed by guards to conso; and profect the grass-utters. And even with such precedible they are always starting out of great ranges and egiting set up, to their own accument accommist and our inscretch Agrun, food has to be errored for them. Now the experiment of all wars, and notably the recent one in Alghanistan has shown that hard com will always command the resources of the country, excepting in the rire eree of political embargo through the hostility of a powerful centialized government, when it would only remun to take what is winded by faste, prying for the same. Money eats nothing, and is more easily accommodited in a regimental querier growth than a froup of men with their points in green exterted into a factor of the same who have the same than t As an instruce of the amminotence of the almights rupee in the late war, I may mention an incident that occurred to myself Having to talle shelter and seek refreshment in a Zaimusht village of bad that occurred to myself. I aiming to the assenter and seek representant in a harmsser variege or one repute when done on with next and imager during a long ride back from the Korama column front in Imar lets, I was suppresed to the quality of the fine wheet eakest they brought me along with the bord of mill. My orderly an affrace explained that the people all long them had made so mench money out of the British toops during the few mooths of the cumpings that they had given up their corner food grams and would have nothing but the finest "facts." ' when "J When I wild that I have my self I ride to pure a much as the overgoes a swand for forges, and ordinarily one ruppe, the engeness of the people to bring in supplies may be understood. On being brought in they should be stored and one purpose of states, an suppose any see information. On some purpose and the states of submitted set the sub-read depth and at the several brilling places along the line of communications on the plin sketched in an immorrandam, deted by the December has in adaptation of the Wr. Objections of our remoter in the side in Lody, expect of which I had been been a submitted to the Viceroy, to the Commande-in-Chaff in Lody, one of which I had been of submitted to the Viceroy, to the Commande-in-Chaff in Lody, one of which I like the work of the Viceroy and the lines Grant of the lines of the Viceroy and the lines of the Viceroy and the lines of the Viceroy and the lines of the Viceroy and the lines of the Viceroy and the lines of the Viceroy and the lines of the Viceroy and the Viceroy and the Viceroy and the Viceroy and Viceroy

As to the alternative source of supply of forage if the grass eatter system is done away with, let the commissariat have hay made and stacked as is done ilmough contractors in the Madris and Bombay pre idences. If in the estimated annual yield any deficiency should be interrupted, tenders for the riquired balance might be identised for in the same way as for other supplies required for the

public service

If Are the wirld extores now procured and mailtimed in the minister most eco-cannal con start with dimensy?

15 What hies should be considered and mu entor na durat ne deservada na na cator na ca rations are of seet urg at unported on

11 See remark to No 1

15 Among new lines of rule y — (1) The Northern Panjab State Railway to be concluded to Peshwurr sails all possible expedition. Lettensons to About through that pres, and no to the foot of the Powry Aotal, up the Meccurry and Ayrum valleys on the one

line, and up the Khyber pres on the other, will naturally fall under consideration when our finances have been retrieved by the adoption of the measures above sketched, and the frontier tribes meanwhile have been got a little in hand

(2) A branch of the Indus Valley Radway from Mooltan to Queita end Dera Giraz and Thull Chotali route, with continuation from Quetta across Pashin valley to the foot of the Kojuck pass

 A brunch from the Oudh Robitkhend Redway to traverse Debra Doon, entering at Hurdwar across the Ganges and leaving the valles at Ray Glat across the Jumpa and joining the Sindh, Punjub mil Delin line at Jugadree. This with a view of mil ing this range of hills available for the

location of Luropean treops throughout

With respect to the completed lines the Fast Indian, Great It dian Peninsula and others, having been Ind down on maturals a cycled military considerations at its presumed that they will be main-tum I in their integrits. The only exception has reference to the Indus Valles Railway, which, it is bit v.l. most man minute only led to Bomby be consected with the Bombay and Broad her at the v.l. most man minute only led to Bomby be consected with the Bombay and Broad her at the v.l. v.l. minute the set beek from Kurreber—munituming the section from Sakhat to Kurrebe branch. Houng tweeter the policy we branch. Houng tweeter the policy will be more formed by the formed we branch. Houng tweeter the following the work of the minute of the both last April from all I am and gathered extracts the defects of the line between Mooltan and Kotree The real to be so reliced, and calculated to eathed such unnecessarily recurring cost for its mann-time that it would sam promodure to do on a the question of the terminus while such apparent de exts < but in the body of the line

Although not model d in the questions defined for report by the army organization commission, the report organization of the army included department uppears to my much of such importance to the health and Arry Mel -1 D restrict ned being of mis commit on arms of the rank and tile, and to the efficiency of the arms in general,

that I fed constrained to append some remarks on the subject, based on observations that I have recently that an opportunity of making in the field. Such remarks, I rentage to bopp, may appear the less obtainers used an official committee is at this moments sitting in Ringriant to enquire into the causes which tend to provent sufficiently eligible candidates from coming forward for the ermsy maked servore, and eggs, that the Secretary at War, doring the late debuts in the Bloose of Common on the ermy estimates for modeline desthilsiments and servors, appeads to the members for Salusbury and Libbarrytic University involving the help of the medial bodies in regard to commiations of candidates for the samy include department. It would seem hence as if the modelin recognization of 135% were on the trail, and the doctor to decrease the theories still open.

In that spectre, copied arousely from the models of America and Geormany, there is undoubtedly much that a good in theory, and had we contented cansolves with grafting on our own system what agened capable of adaptation for mentilest improvement and exceptible of being assumitied without valence to our own arstitutions or to the genus of the nation, all would have concurred in approving the modified reform. But, instead of grafting the foreign had sensethedly, to cut door our own parents team root and inrich and sinck a foreign tere in its place in the place that we will be ablently, the scewment foo much of a pane. The savenage procedures having been doopted moseover, immediately after the Panes Preserm war, along with the ratical change in our military system to bord service in our rand, but to close to this unfavorable impression. My lamonated friend and the justify moraned of the hearts, Rubart Coloine, presented me our publication, with a copy of less human our locking. The Paries,—childring the unition in the purposite fits of scare from the part of the George mention of the copy of the human of the purposite fits of scare in the part of the George mention of the purposite fits of scare in the part of the George mention of the purposite fits of scare on the part of the George mention of the copy of the comment of the results of the purposite fits of scare and the part of the George mention of the purposite fits of the comment of the George mention of the purposite consideration of the purposite consoners.

dangers, if preferred the often on a trustum people.

Descending to pretendars, before choolshing the regimential hospital system, it would have been well to make sure that the cularitate for it, in size base or field heeptall system, would practically work in all intermationes. In the Prance P season with the Prance P not work in all intermationes in the Prance P season with the Prance P not enterwise the season of the line of rul. Consequently, if any internal it any time occurred between the advancing column in the front out the base hospital the vousided or size could readily be conveyed. How it is it with the Buttles olimns in the field in the recent Aightun war f On proceeding to the front I found the base hospital at Pechawar and Kusans it distances of seventy and thirt four miles severally from their respective front have these intervals not commerced by rulavays, not even by roads, but by been found that a feature of the base intervals not commerced by malways, not even by roads, but by been mountains, often impossible in winter and on the other line passing through the Klaultun Pass mixted by out throats. Consequently the Britain regiments in the for twee placed it operated inspirit, is at blue being continued with a heavily almost and method exquenced with their reduced regumental inspirit, is at blue insulated. In the law of the first present size, and and method exquenced with their reduced regumental inspirit, is at blue first out of it on the base hospital is remediated by the processing of the more at skirmish. The theory of the time g is that the law on field hospital is summediately in zeri (within a mide). The theory of the time g is that the law on field hospital is summediately in zeri (within a mide).

and meants equipment insurgance appearing, to the contingency of the interest statumen.

The theory of the Guings in that the lows of field height at summedirely in zert (within a mile) of the front line. The vest difference in practice which I have possible out would seem to indicate that the obthints of the regimental integritis system as a yet present it at least, even if ever it should be considered experients in its soverange scope. I a could venture to salunt that a modification providing for the restortation of the regimental loughtal with its permanent suggest, subject to a supervising for the sectortation of the men general housing all with its permanent suggest, subject to a supervising control by the sensor methal officer is garrison or the dissional P M O in the field, which is the contraction of the many and there over regimental loughtable than its agencial housing, and more original to the surpressing one in restoring to literal not once there have been also become the contraction of the co

The molecularing to invit the census which have much the same medical department to supposite the terms of the present medical surrant case promisedly into use. The like conditates are invited from the present medical surrant case promisedly into the compationly retreal state on private from a case of the present private process of the present private process of the present private process of the present private process of the present private process of the present private private process of the present private p

After the admitted fulture of the medical warrant, from causes which I have here endervoired to trace, it seems unconstraint that a current on the sume lines should have been usual for another very majorant hands of the case, i.e., the veteriors legarithms. The result may but be autospited from the expension reliand in respect of the medical department.

The circe enthances Met est and twice decern is sound. But, in copyring whit we see to be itlanded with successful results in our compris operations, see must be sure that our own curamitiances we identical, or it least in all essential points similar. Otherwise, while we thank we are guided by (1346)

Appendix IV]

be consigling u wiely on the var path we may find that we has e been del ded b an g sft s

land ng u a bog

In conclusion I would onlober ethit if on my of the abo e no its indicated by Go erame t for rejet no) ggest on that I have ent red to s limit for the consider ton of the army orginz to rejet naj geset on taga pro e entreu os suma sor le consecucion o tue armijorg na a on rommo on matindin ni degracato est be de beator I siallifectif tate experence on wiel tie neas brodit late e romo atof pre-sond efforto de dadara ce quired tho egistic a long and incel ser ce Il pobla e bee requiel nina. On no ponte le la fire o ce more n a long and the conse on e sof one good ecomplisted t n f anything I ln e been able to subnit n fl s supplementar no es ould cond ce to the any medel dep them the ng lut on a stable footing and with an organization calculated to attr of the best men into the e ce

No So40 gated Sunl Srd September 18 9

Irom-Coronel A H Murra Dep to Moute t-General Royal Artie y n I dia To-The Sec ctar Army Org n gat on Comm so on

I la e il e lonor to ackno ledge tile rece pt of no letter No 1 ? Confident al dited little Au st 15 9 nd ti reference ti creto beg to cuelo e my reple to papers A a d II ti cr

r ti forwarded

"I sold ose eff to no totle to nate of the current worl of my offee I have been nieted on much time as Leon d base shed to seem a bycets malbeg to elimite militadi. gence of the comm s n sregads the br ty of one of my reples and to beh I feel I lave 1 of

generation to commiss in singular side in 'y or one of impropries shad not be the level in the side of the latter of the able of the purches of the side of the si

(1) Dece al zat o

I - The ratio m on h h most others hage without which t will not be no side to effect much good bit hick first court a sent cty. Il do no a thru anything to plant office ency h conon , and at the s me t me f el tate mmensely the adm nistration of the a my a Ind a s

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occentra 7 to 11 — At prent all a tiorty is cent ed at lead qualities and every matter of the nosit of anta oxade of the e for order and offen for which there is no former 11 e oxade every matter of the nose of the nosit of the sent eriod to separable no is better end to the former of the nose of the odd for the deline the sent eriod despuse blue no is largery but the full ense of the odd for is command. His indicates the settle former of the nose of the odd for the former of the nose of the odd for the former of the nose of the nose of the odd for the former of the nose of the nose of the odd for the former of the nose of

the said less die hydroch non audérifoce the fed and maker possible for éver the pries probable. At fell he afteune a latte les soles four less fer ou maintaine de control of the said less and the said less four less fer ou maintaine de control of the said less four less fer ou maintaine de control of the said less fer ou maintaine de control of the said less four less fer ou maintaine de control of the said less fer ou maintaine de control of the said less four less fer ou maintaine de control of the said less fer ou control of the said less four control of the said le

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VI—Init or ome so ha tem be into lucer a save ginite aff and a line strate on of the nill rimed all adapts a list she led to not corroud one of the nill rimed all adapts all lists seems to over Medisone lo ly the last seems and the last seems a

n of abelined do too belof aumineness in the strong to the fide of the combed ladm at c 11 es should I fet 1 1 md all o c consider ton o clim a ould be subord at to I sho e c ental

(°) Pa

H - H1 (1

dealt with If therefore, any further check which would obviste the evil complained of could be qualitative in mendile a boon to all concerned, a saving to individuals, and in some instances to

FOR THE check when it present earls of causing inspecting officers to report that a belvine in The three would any examination in the proper form is not sufficient, norther would any examination made by in impreting officer be decayed. What is caused is a thorough auditing of the recounts of a made of an inspecting ouncer for necessary of the absolute find they were long to an expect, the worder and cold in the second that they were long to me in proper from but do to me a per into country by comparing the pay losts pay books, recepts and woushers, for that it is behave absets exhibited the true state of the accounts. The only officers qualified in Iraha to the this are those of the pry department. As some butteries do not change hands for several years, unless an annual examination takes place, the accounts may remain in confusion for a long period without its being brought to hight

V—When the difficulties which an efficer commanding a battery has to contend with are con-

swiered, it will not be surprising that recounts go wrong -

(e) the complicated and numerous accounts themselves,

(6) the frequent change of officers (in garrison batteries sometimes as many as four in command m one year)
(c) the difficulty of obtaining qualified pay sergeants,

(d) the fact that frequently officers are entury non to this country and the system of its

resounts, and in many cases have not been long in the service (c) that the officer commanding has to do all thus, in addition to his other multifarious duties,

whereas in the cavelry and infinitaly there are paymenters and regularly instructed pay clerks, who do nothing else

VI -I therefore strongly recommend that an expert be deputed to examine the recounts of each

hattery annually
VII —That all pay lists for one mouth be audited and the objections therein be notified in sufficiently to despread one mouth an despread on the conference mouth and their cent time to reach the corps before the pay lists of the succeeding month are desyntched, and thus around the energing forward of errors to the recounts of the second month. As it is, two, and somewhere one entering networks or close to the extension of the several momental at the product of the indicated these models despie before the presentioned, multi-resoftent as referred to the experiment of the multi-resoftent of the extension of the multi-resoftent of the extension of the multi-resoftent of the extension of the e define referr it for months or more, and the consequence is, the driver is unvise to the order between the referred in the months of the month

IX -Further, I do not think that the relations which exist between the pay department and commanding officers me on a satisfactory footing, or that the former sufficiently realize that its duty should be to assist and facilitate the adjustment of accounts, instead of end woulding, as I tear too often is the case, to make objections which are at times unnecessary, if not versions. Indeed, m some c. ses, it would almost appear as if the object was to weary out the paymaster (i.e., the com-

In some to control of thes by whom advantage can easily be taken especially in the ease of bitteres in the field, and some which are rightly charged an eletroched for what of some counterasynthms, which, palvops owing to casualties, the communating officer, after the long, time which has classed before the receipt

of the objection statement, is unable to obtain

Al —I believe many officers if called upon, would produce starting confirmatory evidence in support of what I bring to notice. I can mention one case of a commanding officer who inflatined me that he had had retrementes made for want of vouchers which he had rendered and which had been

"burked" by the clerk who was convicted and hunded up for the same

AII -Firther reports on this subject shall be obtained and forwarded if required but I submit

that the foregoing points to a flaw in the present system which requires conscision \$\lambda{\text{III}}\$—I do not wish it to be inferred that I wish these compliants required the officers of this department for I know it is absolutely impossible for them to check all pay lists or even perhaps to satisfy themselves of the correctness of the retrembrachts to which they nitroth them signatures—but rather it is the sistem which is at fault. Under any commences, a better I nowledge of the nature of their general duties should be explained and enforced upon all the clarks of the department

(8) Beards of B rue,

I -I think these should be limited, and more trust and confidence placed in commanding officers with regard to the condemnation of minor satisfies. The report of the other commanding the b titary, troop or company, with the certificate of the officer commanding the corps after personal inspection, that the article is worn out through fair wear and terr should suffice

II -Tuke any single instance of any article of Gove amont property and the routine necessary the design suggestiments of my vision on vive timent property was not common measured for the condomination of this the station board, and all the various procedures before the article is condominal. Agrim, in many metinones, reference has to be made to Government to stake off states which have been lost under everythound creamstraces or to write of irricles which have been stoke through no wrat of care or rigilance on the part of the corps and which cases could m my opinion, be dealt with by officers commanding, the more serious cases being after due enquiry disposed of by general officers commanding

(1) Clerks for Unitary offices

I -I think that all clerks in military offices, whether appartaining to Government army bend and turns in the one ceres in minute, ourses, nursues appearance of divisions and districts should be maintry men and it is the employment of civili ms should be absolutely to budden. With carry prospect of meaning service with the colors for corps in Rudin, the carry prospect of meaning for the carried service with the colors for corps in Rudin, and the carried service for the carried service for the carried service with the colors for corps in Rudin, and the carried service for t there would be no diffic ithy in obtaining properly qualified men. Classes should be found for the Appendix IV]

purpose of educating volunteers for this work, the necessary of Il thus of subjects should be taught, and a list kept of all presed men, with their respective qualifications. A stimulus would thus be given to education throughout the arms, benefits would be held out to the deserving soldier, which in time would extend themselve even so for as to have a beneficial effect on recruiting

II —Government would be as well, if no better, served and the civil pension hat would be highly reduced. But I would who ever, in adopting this visiten that the condition of the clerks, both in pay and princip he considered, and that a small pention of the large saving effected by devoted for the improvement of the soldiers in these respects

(5) Stables

I think if permanent fittings to stables, as at home, were introduced into this country, saving would be effected after the first outlay

(6) Live gear

I -The supply of line gear to mounted corps by the commis arist department requires consideration in view to saving unnecessary expense to Government

II - Complaints are now frequent as to-

(a) quality of articles,

(6) difficulty in obtaining complaince with indents,

(c) muster patterns not conformed to in all eases III .—Horse brushes especially are generally condemned as useless for the purpose of grooming Some are so soft as to be only fit for hat brushes. The condemnations in consequence are numerous

I\ —The eastern of supply by means of sub contracts to Natives is, in my opinion, ruinous as regards expenditure, unsatisfactors to commanding others, and the inferiority of the articles supplied is doubtless due to a int of sufficient European supervision

Supply of grass to not uted cosps

The pre-ent mode of supply by merus of grass cutters is unsatisfactory, and the question will some or liter have to be met and dealt with. The grass cutters have had great difficulty in obtaining young jets are sits extent nearways. With more ground hought under culturation, and conveyacinfly less a site had, the difficulty will interest, and I think steps should be taken to secure Government rulks at all stations for the use of mounted corps if the system of grass cutters is confinue!

(8) Military Secretariat

I -As regards the multirry department of the Government of Index, I would submit, if it is intended to keep it up under its present organization, that its constitution should be altered, that appointments thereto should be thrown open to the army at large, and that one artillesy officer of standing and wide experience should be in the department, in view to his treating the more important questions of arm ments, ordinance, say ply, equipments, &e, which are constantly referred by Government to the Commande in Clinet for oquanon, or by His Locellency to Government for smetton II —I think the would extre much correspondence, especially to the ordinance-department and to

this office, when it is ofto found necessary to go more municiply into large artillery questions than would be necessiry in it is not known that they would be dealt with in the milit ay department by an officer of this brunch of the strategy terred in all the technicalities, and acquainted with artillery and

ordnance in all their various details

III.—With all due respect, I that the efficers constituting the military department of this large empire of ould be otherers of the most vined experience obtainable, that they should have as partest a knowledge as possible of the minor default as well as of all matters connected with the difficent I ruches of the army, at large and furally, to ensure the highest state of efficiency, that the tenure of their appendments should be limited

(9) I'stablish newts

I -I trust it will not be considered out of I lice here to remail, that some officers have brought to notice the necessity in their opinion for extra Lucipean soldiers and rithicals being added perminents to the establishment of butteries of royal artillers, but as their representations a ero based

solds on experience granted during the recent enurging. I have not recommended them
II -It will, I feel sure, be evident that such opinions, formed on the experience of this one compage, which was exceptional, are not sufficient to justify any distribution in the numbers now but down, and which have been found equal to the strains of war in numerous other compages, being ent ri uned. Such few relations is may be necessary will of course, be made in similar comparation in future, but I submit that suggestions coming from officers with limited experience should be received with referre and emition

In conclusion, in the event of any of my replies not being understood, or any further explin tion or information being considered nicesenty, I would solicit the inter of further reference to me,

or, if preferred by the commit ion, of being examined personally

No 1791, dated Fort St George, 16th October 1879

I non-Colovel J W Ringovi, Controller of Military Accounts, Lord St George, To-Tile Secretars, Army Organization Commission

I have the binor with reference to your letter as per margin, with its accompanying file of questions,

to the results in the prestions commutation this cope
to the questions commutation this cope of my otheral duties, I am dishdent in venturing opinion on

t 'p' t relative to which I may be considered to have insufficient p resinal experi nee

(1349)

The few on which I may be permitted to offer remarks are as follows -

Queries to Commandants of Native Corps

QUILSTIONS.

16 Do you consider the reverse system could be applied to the Return num; ed seq.

16 Not unless the present term of service were consider ably shortened Pensioned sepoys, as a rule, are decrepid, wornout men While effective and serving with the colors, their families are with them, they have therefore no indocument to seek retirement before actually compelled to leave I do not think with the Midras system, each regiment forming as it were its own home, it would be feasible as an economical

So Is the present most of payment to Madras solians depending as it does on the D to of the Blogmons arondoments, we are not not a factoring of a contract of the contract of

measure to organize a reserve force 35 I should say cortainly not. The present rule gives rise to endloss complications. In the present Afghan war for matance compensation is allowed to Madras troops serving measure compensation is amore to accurate toops setting orthan frontier, based on the price of gram which is searrely used, nee not being the staple food of the country, and yet the calculation is made with the apparent object of enabling the set of to purchase rice at a fixed market rate. When nee is cheap, the Madras sopoy doubtless prefers it, but when dear, he appropriates the compensation money, and satisfies lumself with other grun

39 Can you suggest a better and more economical system in it a pince of the present one for compensation for dearness of pac-

39 I think that compensation should be calculated on the gran which is known to form the staple food of the province in which a regiment may be serving. To grant compensation on the page of mee in a district where that gran is scarcely procurd le and certainly not as a rule consumed by the sepoy is meansistent and very expensive

A

IS Is the same of cloth clothing for In tash troops necessary to all parts of India P

18 This question has frequently invited attention from the frequency with which applications are made for the issue of serge instead and the grant of differential compansation in hea, to such an extent as to demand budget provision There are, I believe, no stations in this presidency in which serge would not suffice instead of cloth

2 Stould not a greater was be made of the contract system?

2 The contract system has been largely introduced into this presidency and I would strongly advocate its further extension in the supply of all articles not requiring special manufacture and scratiny I believe much benefit would be derived financially by the jurchase of all malt honor locally, the article would be superior to that received from home for it would undergo local examination, the condemnation would it is considered, be much reduced Last year the loss in this presidency from wastage and condemnation was over 10 per cent

The foregoing are in connection with the papers forwarded with your letter under acknowledgement

The following tre suggestions which may be considered worthy of investigation in the interests of атту ссепету -

persons

This is an office which Midras alone possesses and the Local Government has on repeated oc-Office of superastendent of family payments and crisions been advised of its being unnecessary, it being quite feasible to transfer the duties, as in the sister presidencies to the Military Account Depart-

ment The present system of making pension payments monthly through the medium of civil tiensury officers station stuff officers, or in a few stations of multimy officers specially appointed for the purpose, as quite as expensive and not nearly so efficient, as that obtaining in Bengal, where payments are in the twice a year by officers of the Multary Account Department.

Introduction of the Bengul system would entail us advance of six months' pension to commence with and of the money calculated on the average of the previous are months. Reco-money to pensioners is, I would observe, peculiar to Madres and a not authorized in the other presidences

Existing regulations admit of the payment of rice-money to any holder of a family certaficate of a

Rose money to holders of family certificates

soldier on held or foreign survice. This involves a large expenditure, which, considering that the

sepoy receaves batta and on foreign service free rations in addition, the State, in my opinion, is not called up on to meet. The attention of the I ocal Government any marted to this, as an itera in which reduction raight prospectively he effected, in a lefter which I addressed it in July last—and it is for consideration whether the concession might not also be withdrawn in the case of pensioners, but not to affect men already enlisted

A change of station in Mudras is productive of considerable expense, not only in regard to

butting-money, purchase and re-sale of lines &c. but more puticularly in the payment of what is Difference of cart have called difference of curt hire, te, one curt is allowed

to exert two separs for their fumilies, and the Government yes of the lines in event of the market rate of tuning when the rule was made in 1501. When regiments proceed to rul, the fumilies are errord at Government expense, and extransors is suithheld. Should such a concession be continued, the longest provision to meet which is Rs 11 000?

The attention of the Local Government was also called in July last to the heavy expense entailed in the annual move of aimy head quarters to

Expense connected with moring army head quarters to the hill Ostrermund, which, evelusive of the amount proable out of the tour expenses of His Excellency

the Commander in Chief, has now risen to about Rs 14 000 per unnum The financial review recently submitted to Government for the list year shows that horses drafted mto the service cost no less than Rs 510, their price on landing having been but Rs 520. It is

Remount Depôt for consideration whether so expensive a training depot is longer necessary, horses as a rule being now imported partly trained. The Bombay system is, it is believed, far less costly

Dated Comp Charally, 28th August 1879

From-Lifux -Cor T Rowland, Communding 1-5th Lusthers, To-The Secretary, Army Organization Commission

In forwar lag my replies to the queues contained in your No 114, Simila, 9th August 1879, I have only one suggestion to offer, e.e., that were tents of a much lighter description, say "sepay's pals," than the present E P tents, substituted for them for all ordinary marching purposes, i.e., reliefs of regiments in the cool serson, there would be a very large saving of carriage. The L. P. tents might he kept at stations in case of any sudden requirement in the hot weather

Roigh Meisorandum explanatory of the Army Corps System of Commands for India, by Mason.
P. FirzG. Gallings, R. A.

1 The whole of Indu to be divided into five rumy-corps commands. This number suggests itself as being probably the minimum consistent with the strength of each corps, D vision of the country rate five army come comma de uly fice?

extent of territory to be supervised, and the proper exercise of the command The commands to include all troops quartered within their boundaries, none to be under Civil

Commands to suclude all troops Governments directly Stoff of army corps—Fuch to be communded by a general or heutenant general, with a staff as er—The whole under one communder in-clinef with the Government of India

Army Corps Staff

- I heutenant-general (for 5th corps a lesser rate of pay)
- 2 index de cin p I assist int military secretary (except for 5th corps)
- I deputs adjut int and deputs quarter mister general I assist int adjul int and resistant quarter master general
- I deputy a setant adjustant and deputy resistant quarter market general
- 1 brighter general communiting royal intillery (except in 5th corps, where a colonel will & iffice)
 - I brig ide major, royal artillers
- l deputa commissari general
- I d puts judge advocate I dejuis surgeon general
- 12
- 2 By clares The boundaries not to be arbitrary, but those of existing Civil Governments or protitice
- 1st Arry corps, lead quoriers Labore—the Punjuh, evoluting the city and civil district of Delhi it important to have the near to a military district herd quarters.

 2. It were An I have been the Military Labor North North North Programs. Delhi district the control of the cont
- h | cerps, hal qualers illitabil-the North-Western Provinces, Delhi district, founds a State of regressed by present under a district (for political reasons), and Buildell hand
- rel dr. eq., ler'q rites Be lay—the present Bomby, Presidence, together with Rig-pation and Cartol Boths (act mich ded in 2nd cort), also new Polan Frontier to little because to particular at the Carton Karton Kharly rich have no dates! connection Strategically, it e as set must a their bel mang to the corps, besides it is not fair for one corps to absorb all chances

The strength of each corns is as follows -

1sr Army Corps head-quarters, Lahore

Troops 36 battahons (12 British) 18 cavalry reguments (3 British) 24 batteries (a Natives)

Divided into our district commands, viz - Peshawu , 2, Kohat , 3, Rawal Pindi , 4, Multin , 5 Lihore , 6 Sinhind—nifh in average of 6 battahons and 8 cavalry regiments each sade remarks below

The artillery are distributed as under -

Staff (I field battery, Peshawar 1 mountain battery, Landa Kotal I heutenant-colonel, 1 Peshawar district. 3 batteries (1 mountain battery, Charat 1 field buttery, Paiwar 1 mountam battery, Paiwar I hentenant-colonel, 2. Kohol district, 3 batteries Priwar (I mountam battery, Bannu 2 horse batteries, Ranal Pindi 1 colonel 2 heutenant-2 field batteries, Campbellpore 3 Rawel Pindi district, 6 batteries 1 mountain battery, Abbottabad colonels, Prndt and Campbellpore I gamson butery Attock I heavy buttery, Multan 1 mountain buttery, Dera Ismail 1 houtenant-colonel. 4 Multan district, 3 briteries Khan Mu'tan 1 garrison battery, Dera Ghazi Khan 2 horse hatteries, Stalket 1 colonel 2 heutenant-2 field batteries, Mian Mir colonels. Stalket and 5 Lahore district, 6 batteries I garrison battery, Lahore Man Mu I garrison buttery, Amritsar (I horse buttery, Ambulla 1 hentenant colonel. 6 Sirbind district, 3 batteries l field battery, Amballa Amballa.

> Total 2 colonels and 8 heutenant colonels, as agamst 3 colonels and 6 heutenant colonels as at present

According to the above distribution, every hentenant-colonel has a real command and the colonels have six batteries in their districts. Batteries of the same kind are is much as possible together, and

(1 gamison battery, Pirozpur

all where they are most likely to be required, or at hand for mobilization as where ever are man over common or a rank or a rank of the strength of nearly equal strength are Distribution and discipling it is a ray-copy — I think are distrings of nearly equal strength are purficiable to divenous and districts, which we of virous sizes and convey no red increase. Brigadien and managements implie common distributed difference of pry which should, I think, be in excess of that of second class buggedien, and considerably less than that of present do mornel commands, major-generals on less pay than at present might be given the new Rawal Pinds and Lahore districts

My principal object, however, in having six nearly equal district commands corresponding to the str brightes of an erroy come when enhoused is to freshtate molylaration. I think the initiative is faulty distributed, and of course melodes (as in the other areas) all thoops in the province. The Poshawar district I have limited to the Peshawar valley and Engafzer. Hazara goes to the Rawal Pindi distret, Kohat, Bannu, and Kuram are new sufficiently large to form a district Pands dastet, Kohat, Bauma, and Kumm are now sufficiently large to form a distate Salkel. In the transferred to Lobors, it can me onesse he said to belong to Baral Pand; I liver leaft all dones and fault artillery decays one field battery at Pashawer and one at Parn wy time said of the Indians, for chourser resons. I do not see, with a britary at Abbettabal, whit one is required for at Kharar Galls. I have placed it at Charat, handy for the troublesome part of the fronties it would do course change in rited. The heavy britary is totally unaccessivy in peace time. Preshawer, and it is ben'd making that tunholithly church a previouser resonance for the unfortunate Native exhibitations. At Millian it is on the mit, handy for other the Bohn or Khaiber Mullian is on the mit, handy for afther the Bohn or Khaiber Mullian at Prozegua and this station, being south of the Sattley and in Surhand proper, I have transferred it to the Sarbind distance. to the Sirhind district

As it is very desirable to have horse willlery hatteries at stations where they can not only be brigned themselves but can also drill with a cavalry brigned (at present they are dotted all over the origines commerces and not only of the control of t remarks. By doing is I suggest, and broung an i failing brigade at Main Mir, the two field bitteries there could drill with it and ilso be brigaded together. By my arrangement of the infinity, there are six British battahous always in the hills out of the live (including one at Landi Kotal and one at Panvar). This is very desirable

Taking this army corps on the whole, and maling all allownees for requirements, I think we could reduce it by two butteries (one royal artillery mountum battery to be transferred to Danjiling , one garneon battery to be reduced, half at Labore and half at American being ample for requirements). and possibly two or three cavalry regiments, but I am leaving things in the present state pretty meanly, as far as the Bengal army is concerned. No doubt, some reduction of the Native infantry is possible, but as there are large decrease in Madras (sade 4th corps) and some in Bombay (sade 3rd corr), none may be necessary in Bengul

2ND ARMI-COPPS, HEAD QUAPTERS ALLINABAD

Divided into eix district commands, viz - Meerut, 2, Agua, 3, Guahar, 4, Robil
 Lhand, 5, Ondh, 6, Allahabad—each contain 36 Initialions (12 British) 12 cavilra regiments (3 British) 23 Latteries ing 6 hattalions and an average of 2 cavalry regiments side rem iil « belon

The artillery are distributed as under on the same principles as before stated (3 horse britteries, Meerat { 1 granson brittery, Delhi 1 heutenant colonel, Meerut 1 Meerut district, 4 Inttenes 2 held britteries 1 garrison brittery, Agra 1 colonel, 2 lieutenant-colonels, 2 Agra definet, 5 hatteries 1 garrison outers, agai 1 2 hild batteries, Campore Agra and Camppore (2 field butteries { 1 heavy battery, Mora { 1 garrison buttery, Fort Gwalar 3 hell butteries, Bureilly 1 heaterant-colonel, Worm 3 Gwaling district, 4 batteries 1 heutenant colonel, Burelly Robilkhand district, 2 batteries 2 horse butteries, Lucknow 1 colonel 2 heutenant colonels, 1 garrison batters, Luel now 8 field batteries, Lyzabad Oadh district, 5 batteries Lucl now and Tyzibad 6 All-habrd district, 3 batteries { 2 field batteries } 1 garneon buttery, Allahabad 1 heutenant-colonel, Allahabad Total 2 colonels and 8 heutenant-

colonels, agamst 3 colonels and 6 heutenant colonels as at present

Renals on 2nd army oppus—Thus corps, occupying, us it does, a province in the heart of the most important part of India must be strong it is also, for the cone reason, hisbe to be called upon for tropes to replace or reinforce those of curronnaling Gorge The principal changes I have made in order to extern portly nearly expert one mountain two—layer, transferred to a distinct of its own, which includes Comaptor this latter sixtum will week a density connected by any with the Agricu'il district , a line is being made through Palebgath to Hattras Gwahar gives up Lahtpur, which 16 m the North Western Provinces and not in Gualiar territory. The Allahabad district loses Compare and it is an Brandelkirand Meeral, being principally a exactly station, ear afford half a ball-like to Delby, metral of Rowkee, it is much neurer and on the 111 Stapan does not require actilier, or an entry, it is close to luncknow and Schaphangur a cavally regularent there can not take loggic et Linching to eve to bessen an an abundance et vertain gainent abeve un house ingrese et Linching on in the cold weither. Adhering to the principle of noter breaking up a regiment between two different communis, I live got the British infratty at Benres to simply Norgeong and Column. As regards noy of artillery, the bases writilery are collected at the choic event sections,—

Meerit and Luckton. The brittenes at Gwalint's are all

field. The two field butteries butherto at Meerut are distributed to Agra and Campore, so as to love two at each station. Extra barrick accommodation may unce to Agra and Cvaripoes, 60 as to wise the Art construct. Letter horizon, recommunitation may be required at Agra? I flam, there is enough at Carangeon in the age infurity hereid's Horse loss to sold the quid by made. Similarly, the field bettery it disting uses to Breatly I doubt it further than the quite large causey in the two latteres. The field betterne vi Lucknow and Beautre respectively go to 1 yield and Allahelud. There is shedy of room it the latter skitten—possibly by vi 1 yield. Noneque flame to besides at an entillety existing. Institute a statistic more very the village of the constitution of the consti

Luci non would be ample, and po subly a few Antive regiments might be dispensed with But, then, we have to a member the calls that may come on this corps for troops—say in the event of two army corn a being cent out of the country, or to replace others, even if but one corps was sent on service

APMY-CORPS, HEAD-QUARTERS BOXING

Treops Dun led into air district commands, vir -If battalions (9 British) 1, Sind and Trentier (to include Pishin), 2 10 e vrhy (1 British) Rappulana, J., Northern, J., Central India, 5, Central, 6, Southern—11/2 remarks below, 23 Intteries morage of 6 but those to ea h district Adense a septrate brigade, but in the corps command. The artible are distributed as under on similar principles to those of the other corps, is:

1 heutenant colonel, Pichin or Quelta I hold betters, A mehr 2 Puji i ana di trici, 2 latteri s ? field Inttene , Arsınl al 1 heutenmt-colonel (thoulded and Brods," 1) fild latters Notion ditret, 3 latienes « Di a, 1 feld 1 ittery: Rigket 1 mon itam 1 atters 1 heatenant colonel

4 Central India district, 3 hat | Mhow, 2 house hatteries 1 heutenant colonel [Amach, I heavy battery terics Kharl), 2 field batteries 1 colonel, 8 heutenant colonels, Ahmadungar, 2 field batteries 5 Central district, 7 batteries Klinrki, Nagar and Bombay Bombay, J garrison batteries Southern district , Aden, 3 garrison butteries lieutenant-colonel Aden brigade, 3 batteries Total staff, 1 colonel and 8

heutenant-colonels, agrunst 4 colonels and 5 heutenant-Remarks on 3rd army-corps — Hore the British infinitry, instend of boing half of the Native, is only one-third but there me good reasons for this, and with the railway communications existing or in progress more is not required. The first district, Sindh and Frontier, I have made to include Quetty.

1 Gumson battery

and Pishin the garmson I suppose to be at-Quelta-Puhn-

2 Regiments Sindh Horse 1 Field bettery 1 Mountum bettery 1 British infentity (or at Quetta) Some companies of infantry Jacobabad-1 Regiment Sind Hoise 1 Regiment Native infantry

 Native infantry Hyderabad I. British infinitry

1 Native infantry Kurrachee-

The same, and field brittery Thus this district could send to the frontier-

3 batteries 3 regiments of cavalry 7 regiments of infinity I have talen the field bettery from Numach and placed two at Nasarabad, head-quarters of Rapputana district, one regument of Bombry evally to Dools, instead of a Bengal one, which goes to Guna The infantity of the district to be composed of one British regiment and one Native at headquarters, Mhauwara Battalion, Ajmere, Empuna Infantry, Ernspura, and Meywar Bhil Corps at Khauwara, total five battalions - The Deoli Irregulm Force I suppose broken up.

The northern district, as it is at present.
The northern district, as it is at present in the Carteril Index District, I get two horse batten as tegether at Mhow, rish one British carriery regiment and one regiments of Central India; House Stein Gima, the heavy britisty to Ninnoh on the rail and broady for any place sequence, the other regument of Central India House at Agai can be brageded in the cell weather with the catalyr at head quanters. The inflathy an one British regiment at Minor, with two companies th Numeric, now Notice inflating at Allony, which was companies to the Central Central Central Research and Maduspur, Bhopal Battainon at Schare, total five battainons. The Malina Elneel Corps I suppose broken u

In the Central district : e, partly the present Puna division and Bombay, I place two field bat-teries, such at Kharka and Ahmadangar, three genuous for Bombay declarees. The earnly as at-present, at Pun-val Giver. The implicit, one British and two Native infinitely at Puna, half a British

and two Nature at Bombay and nalf a British at Ahmadangan

total ux butfulions The Scullers district, which comprises part of the prevent Part, division and the Belgaum, district was one British and one Nature mastry regiment of the prevent Nature such at Shelyau and Dinawry, and one between Kollagaur and Status, ideal five I have untildrawn the field hattery to

The Aden Brigide to have three gurison batteries loyal artiflery, which are, in my opinion, more thru enough at present-one Butash and one Native infinitry regiment

2 horse 10 field The total of batteries is made up of l heavy ي 22 ح 2 mountam 7 gurason

There is no change in the artillery strength except that one more garrison battery is added to Bombuy. The cavalry are also the same, except that the integrals levies at Deck and Empires are not required. The British infanity is not reduced, except that a britishion more is on the Sindh Pron-tier and one less at Puna.

The present number of Nature battalions in the presidency, including all local forces, is-

30 Regula regiments 1 Mhurwiri Bittalion 1 Bhopal Battahon 2 Bhil Corps 2 Corps (Deoli and Dampura) in Ratoniana

Total 36

According to my distribution, only 27 Native regiments are required, therefore 9 cm be reduced 4TR ARMY-CORPS, HEAD QUARTERS MADRAS

Troops 36 Buttahons (8 British) 8 Cavalry (1 British) 16 Butteries

Broided rato six district commands viz 🕳 I, Central Provinces, 2, Handarabad Subsidiary Force, 3, Handarabad Subsidiary Force, 3, Handarabad Subsidiary Force, 3, Handarabad Contingent, 4, Northern, 5 Myson, 6, Southern—with 6 battahons in each vuls remarks on next page The artillery are distributed as under on the same principles as before -

```
Staff
                                Kampti & field batteries
                                                                             1 heutennut colonel
1 Central Province district
                                Sigor, I field battery
                                                                              1 colonel , * 2 heutenant-
2 Huduribid Subsidiary Force Secanderabad {2 horse batteries
                                                                                     colonels
                                   3 field Inttenes †
3 Haidaral ad Contingent
                                 | Madris 1 garnson battery
| St Thomas Mount, 2 field batteries
                                                                              1 hentenant colonel
4 Northern district
                                 Bungalore 2 field batteries

Bellary, 1 heavy battery
                                                                              I heutenant-colonel
. Mysore district
                                             Arl
6 Southern district
```

Total of staff 1 colonel and 5 heutemant-colonels, against 3 colonels and 6 lieutenant colonels as at

present Remarks on 4th army corps -The new districts of this corps are formed as follows. No 1 cmbraces the entire central provinces. No 2 the present Hadarabad Subadrary Poice, which includes the city and suburd of the Nizara scapital, No 3 the Nizara's territory including the Berris, No 4, the new Northern includes the old Northern (limited by presidency boundaries) and nearly all the present Central destrict. No a melades the present My-ore division, Colled district, and South Kanara, No C, the new Southern includes present Southern and Valabar. The above gives an equal division of of the infinity. The cavalry me only required in three districts. The British cavalry regiment at of the infinity. The evalty we only regument in three districts. The British can sly regument in Employ are supposed related, because it one regument be compelled for Boulaus, surjet it is for Madires. The truth is it is not required especially it Burguior. The stillery are only required in the Southern district, it is not required especially it from St. Thomas' Mount. Because in the Southern district, it is not required an 'fee' sear from St. Thomas' Mount. Because is not field bettern: I cannot see the use of a garness in bittery there, so inversemental. The means of butters for perform. One remains of 10 stills George, which is sample for ill requirements. The house artiller, buttery of Dingulers I have moved to Secundershed, where there is matcher, and where the cavity free is strong. I have pried the offeld betterns at Energists (one available from Tinchnopoly). The heavy lattery I have placed at Bellar: it is in a central position and can retch any place required in a short time. The field b titery not there is required for Segre, where one on the Bergale classification of the order of the order of the strong of the field bettern the second of the field the field of the second of the second of the field the field of the second of the field of the field of the second of the field of the field of the second of the field of the field of the field of the second of the field of the second of the field of the field of the second of the field of the field of the field of the second of the field of the field of the second of the field of the field of the second of the second of the field of the field of the second of the second of the field of the field of the second of the second of the field of the second of the second of the field of the field of the second of the second of the field of the second of the second of the field of the second of the second of the field of the second of the second of the second of the field of the second of the second of the second of the second of the second of the second of the se latteries. The enalty would be one British and two regular Madres esvalry, one being taken from Belley, where it is not required. I have the same infinity free there as the perent, it, tho British and two Native underly. The field therefore is four britishes three early, and four undurty. Not, I consider that in Asiate State the Brushwall allo containing a shooling and to stronger than the sub-durty force. At present it compares four britishes, four earlier, and my mandaty reguments. I would therefore propose the reduction of this face by one laddey and one cavalry regiment

The Mysore division at present is absurdly small as regards troops. I have therefore included in the new My one district the present coded district (i.e., Bellary) and the small province of South Kanara, containing only one regiment at Mangalore, to which there is a road from Mysore This new

district will have

```
[ , 2 Britteries
                                            1 British infantry
    3 Balterica
                                            2 Native miantry
                                            1 Battery
1 Brit sh infantry
1 Mil ve infantry
    6 Infantry
                                             1 Regiment
                                                                               Mangalore, Marl ara
Fren h Rocks can have letachments of required
```

The new Souther a distract contains a very quest, numerial e population, except on the nest coast in Melalar Hear I late a whole British is much the offer stations have Nature infant;

The new methum distract includes Madres St Thomas' Mount and Veliog. The jurgent

r riters district is a sired the proposed one will have three bitterns and six battalions. Cutt ik at 1 Sa al alim go to the 5th corps (Bergal and Burma)

Central Provinces district is a complete cust province, and includes Signr, Intalpur, and Actic for tof the estations we off the real and at time distance from any other artill re in I line a feld litter, there two being at Kamptee, as already stated. I cannot see how M less requires my more troops them I have given

Il is cont (no mail) strength in the incidence is as under, including all troops but excluding hurr a the has to be considered separately

```
Butt heavily
    Intel ments
                                         S (a cluding 1 at Sagar and Jabalpur)
    Bi+1
                                         19 (seel shing ! Native of the Ha daribad exists gent)
    Rigula Notice curalty
    Regular mentra
                                        3. (excluding 6 regunents in Burma and Cutt el.)
    Harlet 1 11 Conting at few the
" r rante mundly my stry mg an-
                          Je Pattahor - 15 Briti hi
                           > ( inl i (1 Bet 16)
```

If latt me (1) mi) c's y red en col to Hand whole C unecut

3 heutenant-colonels now

Therefore—

1 British evalry (of the contingent), 1 Native cavalry

3 Batteries, (1 field, 1 garnson and 1 Native field), 13 Native infantity,

cm he released. The field battery is activally so as one went to the frontist H I and has been transtered to Bengal. I question in making the reductions here industed whether it would not be well to substitute six of the regular Madras Nutrice infrusty for the Hydrichid regiments of the contingent, disharding the lattice, which would only leave seven of the Vishras regiments to be reduced

5th Army Corps, head quarters Calcutta

Troops
Dandel safe fee destrod es mands, vu. —
1, Western Rengré, 2, Tresdency, 8, Arram,
8 Country
9 Esternes
The artiller year chatrhoted as under—

1 Western Bengal district 1 battery
2 Presidency district, 4 batteries
3 Edil battery, Durackyore
4 germen bettery, lost William 1 hendemunt-colonel
5 Mount on o Drycking

3 Assum

4 British Burms dietriet, 4 Rangeon, 1 gurrison battery batteries

4 British Burms dietriet, 4 Rangeon, 1 gurrison battery

1 gurrison battery

7 Tongkoo, 1 monthain britistry

2 gurrison battery

Total including royal article lery of corps, 1 colonell and 3 heertenant-colonel and 3 heertenant-colonels as suggest 2 colonels and

The britisty at Disapore us a necessity, owing to the large Native city of Zalon. The field batter es at Burn clyone I look upon more as a reassonment for Bunn them as locally sequenced. One might be attended at Burnshigh which as codes and bestitions. The mountain britisty at Dampeling would be burnly if worted to the Dassers Freeties. At recent, it is buttery as required it is to come all the way from Jatogh en Kharra Galli. Toon butterns we sufficient for Burna in ordinary times

The start on this caps.—The true caps command is exceptional in every way, and does not require such a large ger ison as may of the others it the only except regiment in the tetritory inche led by it is compt as one of Neguli. If there he no particular depends in the tetritory inche led by it is compt as one of Neguli. If there he no particular depends in the start of the start o

The total number required for the 1st 2nd, and 5th corps being 24 + 21 + 19 = 67, the regiments of the Bengal army are—

Ib regular Native infratty
6 Good has regularis
11 regular Native infratty
7 Total
61

This leaves six bethings still winting for the 5th corps. I propose then to take this number of regiments composed of volunter from the pussent Madris stray or Hudialahd Contingent, and Leop them for service in the cas and it Cuttack, and Sandhipur. The Native officers and men contil always get furbuggh to their homes in ordinary times of peace.

General on many of troops required under the proposed sele to Infantry Catales Artillers Horse Tield 12 British 3 British 1rd army-corps, Punjab ī Heavy . 15 Native 24 Native 6* Mountain 5† Garrison 36 18 Total. 21

1 Art v of Punjah Frontier Ferce

4 1 Nahre.

Appendix IV)	(1000)	
Infan	tey Cav by	Art He y 5 Hose
2nd army corps North Western Provinces and Bandelkhand		12 Field 1 Herry 5 Garr son
Total 36	12	23
8rd army-corps, Bombay Presidency and new 27 Na Trontier of Said		2 Horse 10 Deld 1 Heavy 2 Mounta n 7 Garnson
Total 36	10	22
4th army carps, Madras 8 Br Presidency and Central 28 No Provinces		2 Horse MA Fadd 1 Heavy 1 Gurnson
Total 36	8	10
5th army corps, Bengal 5 Br Proper and Brstish Bur 19 No		8 Tield 2 Mountain 3 Garrison
Total 24		8
Grand Total { 46 Br		14 Horse B 42 Field A Heavy B 4 Mountain B 20 Carrison Carrison B 20 Carrison Carrison B 20 Carrison Carrison B 20 Carrison C
168	48	93
About	138 000 at average	or 414 field and mountain

stiength guns, &c

The total of treeps of all arms now in India, including those corps not under the military autho rities

s, are—	Infantry	Cavalry	Arillery 15 Herse B 43 reld
Braish Natave	50\$ 1#4	9. 50	N 4 Heavy N 6 Mountain N 23 Garrison B 1 Garrison
	194	59	100
		_	

Comparing this with the foregoing statement, the numbers that can be reduced in each arm are-

	Infantry	Cavalry	Arbiltery 1 Horse
British Native	4 22	1 10	B 2 I I I I I I I I I I I I I I I I I I
	26	<u> </u>	7

The reductions which can be made are shown in each earys but I shall not touch on the particular trops amongst the Nature carvity and infantry which should be distincted, forther than to any that I than I regarder are means invalid be spared as much as possible set those now mader the mit by unthente a. The following wealth of ourse in news not be touched our the Panylo Transfer Jores the Central I de Aleres the Disput Bathalors and the different particular too good to lead. As agreed the artillery, one house artillery battery will be reduced this ; are, the

^{*} Both Astire † 3 Act to of Ha durahad Contingent. † This 1s, I believe the normal number bet it is not quite reliable

1357)	[Appendix IV
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one field. As regards artillery commands the number of colonels and heutenant colonels to hold actual commands are-

othati con	Colonels (to have rank as brigadiers) for first four army corps	4
	Colonel for the 5th corns	1
	Colonels for distr et commands	6
	Colonel as inspector general of artillery	1
		12
	L entenant-colonels for distincts and stations where two or more battal one are	91
	located Lieutenant colonel as deputy adjutant-general, royal artillery in India	31 1
		32
r if the	deputy adjutant general is a full colonel-	13
	Colonels Lucutenant-colonels	31
	Total	44
	as against as at present I believe	46

ΩŦ

Localization of treess in army corps -- Having thus roughly shown how the troops of all arms could be distributed in my opinion with efficiency it seems to no necessity to have some system of permanent' localization. which will enable Nature regiments to have depose for recursing when a parton of the corps as sissant on service. The only pin II or nee which will produce the results required and give no trouble when mobilisation. In less place as to brive double butthin regiments of the product of th miantry and to associate the cavalry in groups of two regiments also to keep the double battalion regiments permanently in their own corps command, such as now holds a Bombay and Madras regiments permanency in tomer own corps community sour its now mouse in county and cutarities I cannot see any objection to this arrangement more especially if we have "clear see marks" and not "disas companies". I recritante to submit that the present system tends more to amalgements differences amongst, the Natives than if we had regiments of the same casts or sun lar castes and it would not be difficult I should magne, to rearrange them so as to have corps composed of the following groups of castes, v z --1 Goorkhas

8 Sikhs and Dogras 4 Punjabi Mussulmans 5 Trans Indus Mussulmans 6 Brihmms and Rapputs Purbiahs of various Hindu castes. 8 Hindustani Mussulmans

By having the regiments' bilonging permanently to army corps, reliefs would only take place with in the boundaries of the corps, which would I think lessen expense. This would keep the army in

with in the bothshalles of the copy which wown I turns. Aware aspecies. This you make pine army in segments localities and present any letter of small property and the pine and present and present and present and present and presents of the Practice Force and the stand 4th Goodwine which are permanently located I would adopt the following Demplus regiments for the perm usent (encurring) foce required in \$1.4th 1 and 1 all 5 and mixture against the Hindustim regiments and because there is no need for them in the 1st corps

I would strange the above in double battalines as under, will one battaline to be all yets extraord at the depth named, and the other anywhere in the amy corps territory. Both battalines would of course take their turn of the depth, but held shauld here be there tegether

Nov Now of Regio ente	Old Nas	Depôt statsor •
1st Goorkhas	1st and 4th Goorl has	As at present
2nd Guides†	5th Goorl bas and "Guides"	As at present
3rd Sikhs	14th and 15th S LI s	lerozpur
4th ,	27th and 45th Native Infantry	Amballa
5th Punjab Infantry	21st and 22nd Native Infantry	Ranal Pindi
6th	23rd and 32nd Poncers	M in Mir
7th ,	24th and 25th Native Infantry	Jhelam
8th Silbs	lst and 2nd Silbs, Punjab Tron	Kohat
	taer Porce	
9th ,	3rd and 4th Sikhs Punjab Pron	Multan
	tier Perce	
10th Punjab Infantry	1st and 2nd Punjab Infantry,	Bannu
	Punjah Frontser Force	
11th " "	3rd and 4th Punjab Infantry,	Dera Ismail Khan
	Punyab Front er l'orce	
12th ,, ,,	. 5th and 6th Punjab Infantry,	Dera Ghaze Kelan
	Punjab Trontser Porce	

^{*} has so only of counse. Bottle regiments and butterns most be as al present

I be consumed to large of a regiment. A non-regiment of Gordhancould be formed from those now in tunness

typometr. The could be a Gib buttlesse, and form with the Six the Soil Gordhan Dependent. I army corps. the Gorden forming another battahon with any one of the above named reguirents one regiment being reduced

I have relected the above stations partly on account of the nationality of the regiments at each and partly to their being convenient places for grained topols to be left behind when the field thoogs went on service, and although the Sikh regiments are not all in Sikh districts, they could always send recruiting patties, as at present, into the districts from which men might be obtained. T think it would be a great object for regiments to feel that they have a permanent depot, and to know beforehind where that dep6t would be in ease of win

Now the above 5, stem being supposed in existence, I will imagine the order come for mobilizing a whole run; corps (the same numerics would apply to a division or birgade) in the Ponyth Mobili also of corps—To do this we must just have some idea of what a corps, division or

brigade is to be, and I think we should as nearly as possible follow the Loghsh model, which is based on that of all modern enthiced armies, and consists of—

3 divisions of infantry 1 brigade of cavalry corns 0 guns, engineers, farm, &c 2 brighdes of 3 battalions (90 for divisional duties 1 cavilry regiment ınfantry division 1 mfanti y battakon* 3 batteries of utility, 1 company engineers 3 regiments, to which is utilitied 1 buttery of horse artillery. cavalry bugade ... (3 field batternes to each mintry division ntallery 3 horse and two field with corps artillery 1 horse with envalry brigade a company with each division and some as corps engineers engineers

also To adopt this to India, we can select nearly the same number" and distribution of infantry and curily regiments; , but as we should never have battalions stronger than 750 each all round or even in gainsteel, but as the second to engine in the installations and are saw his reguments, with engineers, &c, wand not musta more then 20,000 combinants. I think, therefore, sty game of the notice required, not following the English cades, would be sufficient in Irlan, and the size of the corps aborated is quite large energy, and the size of the corps aborated is quite large energy, considering the experience length of our trains

generic square from the content are accounted seague to the whole seague to the company of the square for service, every local cours would have to supply on mobilization 32 bettelross, see everying regiments, extry gons of saits, five companies stypes: I the dissupend bettelross in an Legislation companies the following the dissupend bettelross in an Legislation companies to follow more than each of the Indian localized conps could furnish without fundaming on the gruinous troops. It will therefore be more convenient to have only the infantily of the divisions, vir, six buttalions each, or 18 for all Of the infantry, I would propose that six British and twelve Native battahons and two British and four Native eavalry regiments be the ordinary proportions for the 1st and 2nd

conps, which would be one Bittish regiment per brigade.

The above I cong settled when the order to mobilize the corps for service is given, one battalion of cuch Native regiment stands fast at each dej ôt station, and at once completes the other battalion up to war strength, sending out recruting parties to replenish its own runks. Each district completes to we strongth, seeming our recenting parties to replensh its own times. Duch distinct completes to of its Nutu children's good region can's in this way from these own depths, and supples also one Britash latitude in the distinct of the stripe of the other distinct on a diction to form a binguide. The 6th distinct, Suhlund, cenned, however, do this. As it has form Britash birthoms (song to full striction) to only two Nuture both of which me it depth virtuons, and must strud first, therefore it will supply three Builtsh latitudens, one for its own buy do not be the six and 2d distincts, see Presidents and Schott, these latin finding each three Nature Intitions mixed of one Britash and two Nature. Thus the neues of all dations to supply bustlessness on he and way not be the Nature Intitions are lated as a former latitudens. buttalions can be luid down beforehund and published in a mobilization scheme in the Army Last or General Orders, something in the same way as at home, but in a much more methodical and systematic

Pausuing the subject of localization further, and supposing the cavalry regiments also grouped in

pairs as under (there, however, need not be re-numbered but contained then old titles, wz) -Deput station at which one of the two must Number of regiments

always be 1st and 2nd Ponjab cavalry Вараприи. 3rd " 4th Bannu 23 5th " loth Bengal Dera Ismail Khan. " 11th 10th 25th , 15th 18th , 15th 17th‡ , 10° lancers Stalkot 35 (10)Amballa " (12) cavalry Multan ,,

(14) Pith; Justin lancers Raual Pluis
Thee, with the Guides Creatry, make up the 15 Native reg monts in the corps
The strains to supply the creatry begude and the drustonal creatry could be arranged in the same way as the infantit, taking care, of course, to let depôt againents, as, those which happen to be at depot stations, stand fast

so at a separationis, so marris.

As regal is critilety, nothing out he settled, as the name of the operations must govern the nature of the bitteres required, but there could be no difficulty where only some ten instead of limited men, field, they and mounts in it his critical tension of the country of the principle, the only statoms left his critical country of the forms and he left one flatted country, one Netter country, one Netter country, one Netter country, one Netter country, one Netter country, one Netter country, or Mountain the nature of the nat

For the reasons embrequently stated the dr. s on al animatry regiments will not be included.
 One compart of sappers and namers to each divisions and two companies, for comparing support and the product of an is specified.

one division of infinity, it , two British and four Native battilions, these would suffice to replement the weakened stations of any importance in the 1st coips, the 1st and 2nd or 1st and 4th districts

of that corps could easily do so, and still leave at synratons strong croagh
Lastly, as to commands, I would allow each district commander to tale his own brigade in the setting, as we community, a versus many even matrice continuence to the line sort herged in the machined corps, which send one various of the clare the continuence of the damp betterions of the vame distinct would become beginning the presence instances defined and the continuence of the continuen (one division of infinity) would be in the territory of the 1st, its head-quirters might be moved temporarily to Umballa to be central

removaring to Construct to be exercit.

The does as rough stacks of an organization, or some such, which I timic might be introduced
with advantage as affording greater facilities for mobilizing tools that the present one. If every
thing was explained being arranged beforehard, it would add much to efficiency Without some

organized system this is impossible

organizate, system that is unpossible.

The same med of a bere shown for mobilizing one copys is of cour c applicable to all. As regards expense, I think, it would be for less than at present. He abolition of presidency commends, and having a nearly uniform district system, with a staff combining both dates of adjustant and quinter mester general's department, will, I am led to believe from rough calculation, produce this result, apart from the reduction in the number of troops as shown herein

> P FirzG GALLWEY, Major, Rojal Artillery

The 6th September 1879